

[illegible]

```

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LL          I
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LL          II
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LL          II
LLL         IIIII
LLL         IIIII

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```
1 0001 0 MODULE setdevs ( IDENT = 'V04-000',
2 0002 0 ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG_RELATIVE)
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: SET Command
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module implements the DCL commands SET CARD_READER, SET
36 0036 1 MAGTAPE, and SET PRINTER.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1
40 0040 1 VAX/VMS operating system, user mode
41 0041 1
42 0042 1 AUTHOR: Gerry Smith 23-Feb-1983
43 0043 1
44 0044 1 Modified by:
45 0045 1
46 0046 1 V03-004 DAS0001 David Solomon 09-Jul-1984
47 0047 1 Fix truncation errors; make nonexternal refs LONG_RELATIVE.
48 0048 1
49 0049 1 V03-003 EAD0146 Elliott A. Drayton 12-Apr-1984
50 0050 1 Add code for new printer characteristics TAB, TRUNCATE,
51 0051 1 SIXELS, and BITMAPPED.
52 0052 1
53 0053 1 V03-002 EMD0046 Ellen M. Dusseault 2-Feb-1984
54 0054 1 Add new line printer characteristic, fallback to
55 0055 1 routine, SET$PRINTER.
56 0056 1
57 0057 1 V03-001 GAS0112 29-Mar-1983
```

SETDEVS  
V04-000

F 13  
16-Sep-1984 00:47:57  
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]SETDEVS.B32;1

Page 2  
(1)

:	58	0058	1	!
:	59	0059	1	!
:	60	0060	1	!
:	61	0061	1	!--

Remove all references to old CLI interface, and old  
command dispatcher.



```
63 0062 1  Include files
64 0063 1
65 0064 1
66 0065 1  LIBRARY 'SYSSLIBRARY:STARLET';      ! VAX/VMS common definitions
67 0066 1
68 0067 1
69 0068 1
70 0069 1  Define bit settings for the flags longword
71 0070 1
72 0071 1  MACRO
73 0072 1      set$V_log          =      0. 0. 1. 0%,      ! /LOG
74 0073 1
75 0074 1  For SET CARD_READER
76 0075 1
77 0076 1      set$V_029         =      0. 1. 1. 0%,      ! /029
78 0077 1      set$V_026         =      0. 2. 1. 0%,      ! /026
79 0078 1
80 0079 1  For SET MAGTAPE
81 0080 1
82 0081 1      set$V_dens         =      0. 1. 1. 0%,      ! /DENSITY
83 0082 1      set$V_1600        =      0. 2. 1. 0%,      !           =1600
84 0083 1      set$V_800         =      0. 3. 1. 0%,      !           =800
85 0084 1      set$V_6250        =      0. 4. 1. 0%,      !           =6250
86 0085 1      set$V_logsoft     =      0. 5. 1. 0%,      ! /LOGSOFT
87 0086 1      set$V_nologsoft   =      0. 6. 1. 0%,      ! /NOLOGSOFT
88 0087 1      set$V_files       =      0. 7. 1. 0%,      ! /SKIP=FILES
89 0088 1      set$V_record      =      1. 0. 1. 0%,      ! /SKIP=RECORDS
90 0089 1
91 0090 1  For SET PRINTER
92 0091 1
93 0092 1      set$V_ff          =      0. 1. 1. 0%,      ! /FF
94 0093 1      set$V_noff        =      0. 2. 1. 0%,      ! /NOFF
95 0094 1      set$V_cr          =      0. 3. 1. 0%,      ! /CR
96 0095 1      set$V_nocr       =      0. 4. 1. 0%,      ! /NOCR
97 0096 1      set$V_pass       =      0. 5. 1. 0%,      ! /PASSALL
98 0097 1      set$V_nopass     =      0. 6. 1. 0%,      ! /NOPASSALL
99 0098 1      set$V_print       =      0. 7. 1. 0%,      ! /PRINTALL
100 0099 1      set$V_noprint    =      1. 0. 1. 0%,      ! /NOPRINTALL
101 0100 1      set$V_wrap       =      1. 1. 1. 0%,      ! /WRAP
102 0101 1      set$V_nowrap     =      1. 2. 1. 0%,      ! /NOWRAP
103 0102 1      set$V_lower      =      1. 3. 1. 0%,      ! /LOWERCASE (NOUPPER)
104 0103 1      set$V_upper      =      1. 4. 1. 0%,      ! /UPPERCASE (NOLOWER)
105 0104 1      set$V_lp11       =      1. 5. 1. 0%,      ! /LP11
106 0105 1      set$V_la180      =      1. 6. 1. 0%,      ! /LA180
107 0106 1      set$V_la11       =      1. 7. 1. 0%,      ! /LA11
108 0107 1      set$V_unk        =      2. 0. 1. 0%,      ! /UNKNOWN
109 0108 1      set$V_page       =      2. 1. 1. 0%,      ! /PAGE=n
110 0109 1      set$V_width      =      2. 2. 1. 0%,      ! /WIDTH=n
111 0110 1      set$V_fallback   =      2. 3. 1. 0%,      ! /FALLBACK
112 0111 1      set$V_nofallback =      2. 4. 1. 0%,      ! /NOFALLBACK
113 0112 1      set$V_truncate   =      2. 5. 1. 0%,      ! /TRUNCATE
114 0113 1      set$V_notruncate =      2. 6. 1. 0%,      ! /NOTRUNCATE
115 0114 1      set$V_tab        =      2. 7. 1. 0%,      ! /TAB
116 0115 1      set$V_notab      =      3. 0. 1. 0%,      ! /NOTAB
117 0116 1      set$V_sixels     =      3. 1. 1. 0%,      ! /SIXELS
118 0117 1      set$V_nosixels   =      3. 2. 1. 0%,      ! /NOSIXELS
119 0118 1      set$V_bitmapped   =      3. 3. 1. 0%,      ! /BITMAPPED
```

SETDEVS  
V04-000

H 13  
16-Sep-1984 00:47:57 VAX-11 B11ss-32 V4.0-742  
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

Page 4  
(2)

; 120      0119 1      set\$y\_nobitmapped      =      3, 4, 1, 0%;      ! /NOBITMAPPED

```
122 0120 1 1 Table of contents
123 0121 1 1
124 0122 1 1
125 0123 1 1
126 0124 1 FORWARD ROUTINE
127 0125 1 set$card_reader : NOVALUE,
128 0126 1 set$magtape : NOVALUE,
129 0127 1 set$printer : NOVALUE;
130 0128 1
131 0129 1
132 0130 1 External routines
133 0131 1
134 0132 1 EXTERNAL ROUTINE
135 0133 1 lib$cvb_dtb, ! Convert ASCII to binary
136 0134 1 cli$get_value, ! Get value from CLI
137 0135 1 cli$present; ! See if qualifier is present
138 0136 1
139 0137 1
140 0138 1
141 0139 1 Declare some shared messages
142 0140 1
143 P 0141 1 $SHR_MSGDEF (SET,119,LOCAL,
144 P 0142 1 (valerr, error),
145 0143 1 (invquaval, error));
146 0144 1
147 0145 1
148 0146 1 Declare literals defined elsewhere
149 0147 1
150 0148 1 EXTERNAL LITERAL
151 0149 1 set$_writeerr, ! Error modifying device
152 0150 1 set$_devset1, ! characteristic set
153 0151 1 set$_devset2,
154 0152 1 set$_eofset, ! EOF written on tape
155 0153 1 cli$_ivdevtype, ! Wrong device type
156 0154 1 cli$_devnotfor, ! Device not mounted foreign
157 0155 1 cli$_absent, ! Qualifier absent
158 0156 1 cli$_negated, ! Qualifier explicitly negated
159 0157 1 cli$_abkeyw; ! Ambiguous keyword
160 0158 1
```



```
162 0159 1 GLOBAL ROUTINE set$card_reader : NOVALUE =
163 0160 2 BEGIN
164 0161 3 ++
165 0162 4 Functional description
166 0163 5
167 0164 6 This is the routine for the SET CARD_READER command. It is called
168 0165 7 from the SET command processor, and sets the characteristics of
169 0166 8 a card reader.
170 0167 9
171 0168 10 Inputs
172 0169 11 None
173 0170 12
174 0171 13 Outputs
175 0172 14 None
176 0173 15
177 0174 16 ----
178 0175 17
179 0176 18 LOCAL
180 0177 19 status,          ! Status return
181 0178 20 desc : $BBLOCK[dsc$ s bln], ! General purpose descriptor
182 0179 21 flags : $BBLOCK[4] INITIAL (0), ! Flags longword
183 0180 22 info_desc : VECTOR[2], ! $GETCHN descriptor
184 0181 23 info_block : $BBLOCK[12], ! $GETCHN information block
185 0182 24 channel : WORD, ! I/O channel
186 0183 25 iosb : VECTOR[4,WORD]; ! I/O status block
187 0184 26
188 0185 27
189 0186 28 Collect the name of the card reader.
190 0187 29
191 0188 30 $init_dyndesc(desc); ! Make the descriptor dynamic
192 0189 31 cli$get_value(%ASCII 'DEVICE',
193 0190 32 desc);
194 0191 33
195 0192 34
196 0193 35 Determine what characteristics to set, and whether or not to log them.
197 0194 36
198 0195 37 flags[set$v_log] = cli$present(%ASCII 'LOG');
199 0196 38 flags[set$v_029] = cli$present(%ASCII '029');
200 0197 39 flags[set$v_026] = cli$present(%ASCII '026');
201 0198 40 IF NOT .flags[set$v_029]
202 0199 41 AND NOT .flags[set$v_026]
203 0200 42 THEN RETURN;
204 0201 43
205 0202 44
206 0203 45 Assign a channel to the device.
207 0204 46
208 P 0205 47 IF NOT (status = $ASSIGN(DEVNAM = desc,
209 0206 48 CHAN = channel))
210 0207 49 THEN
211 0208 50 BEGIN
212 0209 51 SIGNAL(set$_writeerr, 1, desc, .status);
213 0210 52 RETURN;
214 0211 53 END;
215 0212 54
216 0213 55
217 0214 56 Determine if it is indeed a card reader.
218 0215 57
```



```
219 0216 2 info_desc[0] = 12;
220 0217 info_desc[1] = info_block;
221 P 0218 IF NOT (status = $GETCHN(SCDBUF = info_desc,
222 0219 CHAN = .channel))
223 0220 THEN
224 0221 BEGIN
225 0222 SIGNAL(set$writeerr, 1, desc, .status);
226 0223 RETURN;
227 0224 END;
228 0225
229 0226 IF .info_block[dib$b_devclass] NEQU dc$_card
230 0227 THEN
231 0228 BEGIN
232 0229 SIGNAL(set$writeerr, 1, desc,
233 0230 cli$_ivdevtype);
234 0231 END;
235 0232
236 0233
237 0234 Set the specified characteristic.
238 0235
239 0236 IF .flags[set$v_026]
240 0237 THEN $BLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t026;
241 0238 ELSE $BLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t029;
242 0239
243 P 0240 status = $QIOW(CHAN = .channel,
244 P 0241 FUNC = IOS$SETMODE,
245 P 0242 IOSB = iosb,
246 P 0243 P1 = info_block[dib$b_devclass],
247 0244 P2 = 8);
248 0245
249 0246 IF .status
250 0247 THEN status = .iosb[0];
251 0248 IF NOT .status
252 0249 THEN
253 0250 BEGIN
254 0251 SIGNAL(set$writeerr, 1, desc, .status);
255 0252 END
256 0253 ELSE IF .flags[set$v_log]
257 0254 THEN SIGNAL(set$_devset1, 2, desc, (IF .flags[set$v_026]
258 0255 THEN %ASCID '026'
259 0256 ELSE %ASCID '029'));
260 0257
261 0258 RETURN;
262 0259 1 END;
```

```
.TITLE SETDEVS
.IDENT \V04-000\
.PSECT $SPLITS,NOWRT,NOEXE,2
00 00 45 43 49 56 45 44 00000 P.AAB: .ASCII \DEVICE\<0><0>
010E0006 00008 P.AAA: .LONG 17694726
00000000' 0000C .ADDRESS P.AAB
00 47 4F 4C 00010 P.AAD: .ASCII \LOG\<0>
010E0003 00014 P.AAC: .LONG 17694723
00000000' 00018 .ADDRESS P.AAD
```

```
00 39 32 30 0001C P.AAF: .ASCII \029\<0>
      010E0003 00020 P.AAE: .LONG 17694723
      00000000' 00024 .ADDRESS P.AAF
00 36 32 30 00028 P.AAH: .ASCII \026\<0>
      010E0003 0002C P.AAG: .LONG 17694723
      00000000' 00030 .ADDRESS P.AAH
00 36 32 30 00034 P.AAJ: .ASCII \026\<0>
      010E0003 00038 P.AAI: .LONG 17694723
      00000000' 0003C .ADDRESS P.AAJ
00 39 32 30 00040 P.AAL: .ASCII \029\<0>
      010E0003 00044 P.AAK: .LONG 17694723
      00000000' 00048 .ADDRESS P.AAL
```

```
.EXTRN LIB$CVT_DTB, CLISGET_VALUE
.EXTRN CLISP$PRESENT, SET$WRITEERR
.EXTRN SET$DEVSET1, SET$DEVSET2
.EXTRN SET$EOFSET, CLIS_IVDEVTYPE
.EXTRN CLIS_DEVNOTFOR, CLIS_ABSENT
.EXTRN CLIS_NEGATED, CLIS_ABKEYW
.EXTRN SYSS$ASSIGN, SYSS$GETCHN
.EXTRN SYSS$QIOW
```

```
.PSECT $CODE$,NOWRT,2
```

```
.ENTRY SET$CARD READER, Save R2,R3,R4,R5,R6,R7
MOVAB LIB$SIGNAL, R7
MOVL #SET$WRITEERR, R6
MOVAB CLISP$PRESENT, R5
MOVAB P.AAA, R4
SUBL2 #40, SP
CLRL FLAGS
MOVL #34471936, DESC
CLRL DESC+4
PUSHAB DESC
PUSHL R4
CALLS #2, CLISGET_VALUE
PUSHAB P.AAC
CALLS #1, CLISP$PRESENT
INSV R0, #0, #1, FLAGS
PUSHAB P.AAE
CALLS #1, CLISP$PRESENT
INSV R0, #1, #1, FLAGS
PUSHAB P.AAG
CALLS #1, CLISP$PRESENT
INSV R0, #2, #1, FLAGS
BBS #1, FLAGS, 1$
BBS #2, FLAGS, 1$
RET
CLRQ -(SP)
PUSHAB CHANNEL
PUSHAB DESC
CALLS #4, SYSS$ASSIGN
MOVL R0, STATUS
BLBC STATUS, 5$
MOVL #12, INFO_DESC
MOVAB INFO_BLOCK, INFO_DESC+4
PUSHAB INFO_DESC
```

```
00FC 00000
57 00000000G 00 9E 00002
56 00000000G 8F D0 00009
55 00000000G 00 9E 00010
54 00000000' EF 9E 00017
5E 28 C2 0001E
      53 D4 00021
20 AE 020E0000 8F D0 00023
      24 AE D4 0002B
      20 AE 9F 0002E
      54 DD 00031
00000000G 00 02 FB 00033
      0C A4 9F 0003A
53 01 65 01 FB 0003D
      00 50 F0 00040
      18 A4 9F 00045
53 01 65 01 FB 00048
      01 50 F0 0004B
      24 A4 9F 00050
      01 01 FB 00053
53 01 65 02 50 F0 00056
      05 53 01 E0 0005B
      01 53 02 E0 0005F
      04 00063
      7E 7C 00064 1$:
      08 AE 9F 00066
      2C AE 9F 00069
      04 FB 0006C
00000000G 00 50 D0 00073
      52 E9 00076
      18 AE 0C D0 00079
      1C AE 0C AE 9E 0007D
      18 AE 9F 00082
```

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```

			7E	7C	00085	CLRQ	-(SP)	
			7E	D4	00087	CLRL	-(SP)	
			AE	3C	00089	MOVZWL	CHANNEL, -(SP)	
			05	FB	0008D	CALLS	#5, SYS\$GETCHN	
			50	D0	00094	MOVL	R0, STATUS	
			52	E9	00097	BLBC	STATUS, 5\$	
			AE	91	0009A	CMPB	INFO_BLOCK+4, #65	0226
			10	13	0009F	BEQL	2\$	
			8F	DD	000A1	PUSHL	#CLIS_IVDEVTYPE	0229
			AE	9F	000A7	PUSHAB	DESC	
			01	DD	000AA	PUSHL	#1	
			56	DD	000AC	PUSHL	R6	
			04	FB	000AE	CALLS	#4, LIB\$SIGNAL	
			02	E1	000B1	BBC	#2, FLAGS, 3\$	0236
			0F	8A	000B5	BICB2	#15, INFO_BLOCK	0237
			06	11	000B9	BRB	4\$	
			01	F0	000BB	INSV	#1, #0, #4, INFO_BLOCK	0238
			7E	7C	000C1	CLRQ	-(SP)	0244
			7E	7C	000C3	CLRQ	-(SP)	
			08	DD	000C5	PUSHL	#8	
			AE	9F	000C7	PUSHAB	INFO_BLOCK+4	
			7E	7C	000CA	CLRQ	-(SP)	
			AE	9F	000CC	PUSHAB	IOSB	
			23	DD	000CF	PUSHL	#35	
			7E	3C	000D1	MOVZWL	CHANNEL, -(SP)	
			7E	D4	000D5	CLRL	-(SP)	
			0C	FB	000D7	CALLS	#12, SYS\$QIOW	
			50	D0	000DE	MOVL	R0, STATUS	
			52	E9	000E1	BLBC	STATUS, 5\$	0246
			AE	3C	000E4	MOVZWL	IOSB, STATUS	0247
			52	E8	000E8	BLBS	STATUS, 6\$	0248
			52	DD	000EB	PUSHL	STATUS	0251
			AE	9F	000ED	PUSHAB	DESC	
			01	DD	000F0	PUSHL	#1	
			56	DD	000F2	PUSHL	R6	
			1E	11	000F4	BRB	9\$	
			53	E9	000F6	BLBC	FLAGS, 10\$	0253
			02	E1	000F9	BBC	#2, FLAGS, 7\$	0254
			A4	9E	000FD	MOVAB	P.AAI, R0	0255
			04	11	00101	BRB	8\$	
			A4	9E	00103	MOVAB	P.AAK, R0	0256
			50	DD	00107	PUSHL	R0	
			AE	9F	00109	PUSHAB	DESC	0254
			02	DD	0010C	PUSHL	#2	
			8F	DD	0010E	PUSHL	#SETS_DEVSET1	
			04	FB	00114	CALLS	#4, LIB\$SIGNAL	
			04	00	00117	RET		0259

; Routine Size: 280 bytes, Routine Base: \$CODE\$ + 0000



```
264 0260 1 GLOBAL ROUTINE set$magtape : NOVALUE =
265 0261 BEGIN
266 0262 +-
267 0263 Functional description
268 0264
269 0265 This is the routine for the SET MAGTAPE command. It is called
270 0266 from the SET command processor, and performs various actions on
271 0267 a magtape.
272 0268
273 0269 Inputs
274 0270 None
275 0271
276 0272 Outputs
277 0273 None
278 0274
279 0275 ----
280 0276
281 0277 LOCAL
282 0278 status,          ! Status return
283 0279 density,        ! Magtape density
284 0280 function,        ! QIO function code
285 0281 count,          ! Number of files/records to skip
286 0282 desc : $BBLOCK[dsc$c s bln], ! General purpose descriptor
287 0283 value_desc : $BBLOCK[dsc$c s bln], ! Value descriptor
288 0284 flags : $BBLOCK[4] INITIAL(0), ! Flags longword
289 0285 info_desc : VECTOR[2], ! $GETCHN descriptor
290 0286 info_block : $BBLOCK[12], ! $GETCHN information block
291 0287 channel : WORD, ! I/O channel
292 0288 iosb : VECTOR[4,WORD]; ! I/O status block
293 0289
294 0290 BIND mt_char = info_block[dib$l_devdepend] : $BBLOCK[4];
295 0291
296 0292
297 0293 Collect the name of the magtape.
298 0294
299 0295 $init_dyndesc(desc); ! Make the descriptors dynamic
300 0296 $init_dyndesc(value_desc);
301 0297 cli$get_value(ASCII 'DEVICE',
302 0298 desc);
303 0299
304 0300
305 0301 Assign a channel to the device.
306 0302
307 P 0303 IF NOT (status = $ASSIGN(DEVNAM = desc,
308 0304 CHAN = channel))
309 0305 THEN
310 0306 BEGIN
311 0307 SIGNAL(set$writeerr, 1, desc, .status);
312 0308 RETURN;
313 0309 END;
314 0310
315 0311 Determine if it is indeed a magtape.
316 0312
317 0313 info_desc[0] = 12; ! Set up the descriptor
318 0314 info_desc[1] = info_block; ! for $GETCHN
319 P 0315 IF NOT (status = $GETCHN($CDBUF = info_desc,
320 0316 CHAN = .channel)) ! Issue the $GETCHN, asking for
! secondary characteristics (in
```

```
321 0317 2 THEN                                ! case it's spooled)
322 0318 2 BEGIN                                ! If a problem, signal it.
323 0319 2 SIGNAL(set$_writeerr, 1, desc, .status);
324 0320 2 RETURN;
325 0321 2 END;
326 0322 2
327 0323 2 IF .info_block[dib$b_devclass] NEQU dc$_tape ! If not a tape,
328 0324 2 THEN ! signal that it's not.
329 0325 2 BEGIN
330 0326 2 SIGNAL(set$_writeerr, 1, desc,
331 0327 2 cli$_ivdevtype);
332 0328 2 RETURN;
333 0329 2 END;
334 0330 2 IF NOT .info_block[dev$v_mnt] ! If not mounted,
335 0331 2 THEN ! signal an error
336 0332 2 BEGIN
337 0333 2 SIGNAL(set$_writeerr, 1, desc, ss$_devnotmount);
338 0334 2 RETURN;
339 0335 2 END;
340 0336 2 IF NOT .info_block[dev$v_for] ! If not mounted foreign,
341 0337 2 THEN ! signal an error
342 0338 2 BEGIN
343 0339 2 SIGNAL(set$_writeerr, 1, desc, cli$_devnotfor);
344 0340 2 RETURN;
345 0341 2 END;
346 0342 2
347 0343 2
348 0344 2 Determine whether to log the actions taken.
349 0345 2
350 0346 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
351 0347 2
352 0348 2
353 0349 2 Density
354 0350 2
355 0351 2 IF (flags[set$v_dens] = cli$get_value(%ASCID 'DENSITY', value_desc))
356 0352 2 THEN
357 0353 2 BEGIN
358 0354 2 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
359 0355 2 value_desc[dsc$a_pointer],
360 0356 2 density))
361 0357 2 THEN
362 0358 2 BEGIN
363 0359 2 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'DENSITY');
364 0360 2 RETURN;
365 0361 2 END;
366 0362 2 IF .density EQL 1600
367 0363 2 THEN
368 0364 2 BEGIN
369 0365 2 flags[set$v_1600] = 1;
370 0366 2 mt_char[mt$v_density] = mt$k_pe_1600;
371 0367 2 END
372 0368 2 ELSE IF .density EQL 800
373 0369 2 THEN
374 0370 2 BEGIN
375 0371 2 flags[set$v_800] = 1;
376 0372 2 mt_char[mt$v_density] = mt$k_nrzi_800;
377 0373 2 END
```

```

378 0374 ELSE IF .density EQL 6250
379 0375 THEN
380 0376 BEGIN
381 0377     flags[set$ν_6250] = 1;
382 0378     mt_char[mt$ν_density] = mt$k_gcr_6250;
383 0379 END
384 0380 ELSE
385 0381 BEGIN
386 0382     SIGNAL(set$_invquaval, 2, desc, %ASCID 'DENSITY');
387 0383     RETURN;
388 0384 END;
389 0385 END;
390 0386
391 0387
392 0388 /[/NO]LOGSOFT is only good for TU78's
393 0389
394 0390 IF (status = cli$present(%ASCID 'LOGSOFT')) NEQ cli$_absent
395 0391 THEN
396 0392 BEGIN
397 0393     IF .status NEQ cli$_negated
398 0394 THEN
399 0395 BEGIN
400 0396     flags[set$ν_logsoft] = 1;
401 0397     mt_char[mt$ν_logsoft] = 1;
402 0398 END
403 0399 ELSE
404 0400 BEGIN
405 0401     flags[set$ν_nologsoft] = 1;
406 0402     mt_char[mt$ν_logsoft] = 0;
407 0403 END;
408 0404 END;
409 0405
410 0406 IF .flags[set$ν_dens]
411 0407 OR .flags[set$ν_logsoft]
412 0408 OR .flags[set$ν_nologsoft]
413 0409 THEN
414 0410 BEGIN
415 0411     status = $QIOW(CHAN = .channel,
416 0412                    FUNC = IOS_SETMODE,
417 0413                    IOSB = iosb,
418 0414                    P1 = info_block[dib$b_devclass],
419 0415                    P2 = 8);
420 0416
421 0417 IF .status
422 0418 THEN status = .iosb[0];
423 0419 IF NOT .status
424 0420 THEN SIGNAL(set$_writeerr, 1, desc, .status)
425 0421 ELSE IF .flags[set$ν_log]
426 0422 THEN
427 0423 BEGIN
428 0424     IF .flags[set$ν_dens]
429 0425 THEN SIGNAL(set$_devset2, 3, desc, %ASCID 'DENSITY',
430 0426                (IF .flags[set$ν_1600]
431 0427                    THEN %ASCID '1600'
432 0428                    ELSE IF .flags[set$ν_800]
433 0429                        THEN %ASCID '800'
434 0430                        ELSE %ASCID '6250')));

```



```
435      END;
436      END;
437
438      ---
439      The next set of modifications to perform are positional changes, rather
440      than changes to the characteristics.
441
442      IF cli$present(%ASCID 'END_OF_FILE')
443      THEN
444      BEGIN
445      INCR index FROM 1 TO 2 DO
446      BEGIN
447      status = $QIOW(CHAN = .channel,
448      FUNC = io$ writemark,
449      IOSB = iosb);
450
451      IF .status
452      THEN status = .iosb[0];
453      IF NOT .status
454      THEN EXITLOOP;
455      END;
456      IF NOT .status
457      THEN SIGNAL(set$ writeerr, 1, desc, .status)
458      ELSE IF .flags[set$ v_log]
459      THEN SIGNAL(set$ eofset, 1, desc);
460      END;
461
462      IF cli$present(%ASCID 'SKIP.END_OF_TAPE')
463      THEN
464      BEGIN
465      DO
466      BEGIN
467      status = $QIOW(CHAN = .channel,
468      FUNC = io$ skipfile,
469      IOSB = iosb,
470      P1 = 32767);
471
472      IF .status
473      THEN status = .iosb[0];
474      IF NOT .status
475      THEN EXITLOOP;
476      END
477      UNTIL .$BLOCK[iosb[2], mt$ v_bot];
478      IF NOT .status
479      THEN SIGNAL(set$ writeerr, 1, desc, .status)
480      ELSE IF .flags[set$ v_log]
481      THEN SIGNAL(set$ devset, 2, desc, %ASCID 'END_OF_TAPE');
482      END;
483
484      function = 0;
485      IF cli$get_value(%ASCID 'SKIP.FILES', value_desc)
486      THEN
487      BEGIN
488      function = io$ skipfile;
489      flags[set$ v_files] = 1;
490      IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
491      .value_desc[dsc$a_pointer],
492      count))
493      THEN
```

```
492 0488 4 BEGIN
493 0489 4 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
494 0490 4 RETURN;
495 0491 4 END;
496 0492 4 END
497 0493 2 ELSE IF cli$get_value(%ASCID 'SKIP.BLOCKS', value_desc)
498 0494 2 THEN
499 0495 2 BEGIN
500 0496 2 function = io$_skiprecord;
501 0497 2 flags[set$_record] = 1;
502 0498 2 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$_length],
503 0499 2 .value_desc[dsc$_pointer],
504 0500 2 count))
505 0501 2 THEN
506 0502 2 BEGIN
507 0503 2 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
508 0504 2 RETURN
509 0505 2 END;
510 0506 2 END
511 0507 2 ELSE IF cli$get_value(%ASCID 'SKIP.RECORDS', value_desc)
512 0508 2 THEN
513 0509 2 BEGIN
514 0510 2 function = io$_skiprecord;
515 0511 2 flags[set$_record] = 1;
516 0512 2 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$_length],
517 0513 2 .value_desc[dsc$_pointer],
518 0514 2 count))
519 0515 2 THEN
520 0516 2 BEGIN
521 0517 2 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
522 0518 2 RETURN
523 0519 2 END
524 0520 2 END;
525 0521 2 IF .function NEQ 0
526 0522 2 THEN
527 0523 2 BEGIN
528 0524 2 status = $QIOW(CHAN = .channel,
529 0525 2 FUNC = .function,
530 0526 2 IOSB = iosb,
531 0527 2 P1 = .count);
532 0528 2
533 0529 2 IF .status
534 0530 2 THEN status = .iosb[0];
535 0531 2 IF NOT .status
536 0532 2 THEN
537 0533 2 BEGIN
538 0534 2 SIGNAL(set$_writeerr, 1, desc, .status);
539 0535 2 RETURN;
540 0536 2 END;
541 0537 2
542 0538 2 If the skip function was negative, then the tape must be re-positioned
543 0539 2 forward, over the end mark.
544 0540 2
545 0541 2 IF .count LSS 0
546 0542 2 THEN
547 0543 2 BEGIN
548 0544 2 status = $QIOW(CHAN = .channel,
```

```
549      P 0545      4      FUNC = function,  
550      P 0546      4      IOSB = iosb,  
551      P 0547      4      P1 = 1);  
552      P 0548      4      IF .status  
553      P 0549      4      THEN status = .iosb[0];  
554      P 0550      4      IF NOT .status  
555      P 0551      4      THEN  
556      P 0552      4      BEGIN  
557      P 0553      4      SIGNAL(set$_writeerr, 1, desc, .status);  
558      P 0554      4      RETURN;  
559      P 0555      4      END;  
560      P 0556      4      END;  
561      P 0557      4  
562      P 0558      4      --- If /LOG, then tell what was done.  
563      P 0559      4  
564      P 0560      4      IF .flags[set$_log]  
565      P 0561      4      THEN SIGNAL(set$_devset2, 3, desc,  
566      P 0562      4      (IF .flags[set$_files]  
567      P 0563      4      THEN %ASCID 'SKIP_FILES'  
568      P 0564      4      ELSE %ASCID 'SKIP_RECORDS'),  
569      P 0565      4      value_desc);  
570      P 0566      4  
571      P 0567      4      END;  
572      P 0568      4  
573      P 0569      4      --- Lastly, check for /REWIND or /UNLOAD.  
574      P 0570      4  
575      P 0571      4      IF cli$present(%ASCID 'REWIND')  
576      P 0572      4      THEN  
577      P 0573      4      BEGIN  
578      P 0574      4      status = $QIOW(CHAN = .channel,  
579      P 0575      4      IOSB = iosb,  
580      P 0576      4      FUNC = ios$_rewind);  
581      P 0577      4  
582      P 0578      4      IF .status  
583      P 0579      4      THEN status = .iosb[0];  
584      P 0580      4      IF NOT .status  
585      P 0581      4      THEN  
586      P 0582      4      BEGIN  
587      P 0583      4      SIGNAL(set$_writeerr, 1, desc, .status);  
588      P 0584      4      END  
589      P 0585      4      ELSE IF .flags[set$_log]  
590      P 0586      4      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'REWIND');  
591      P 0587      4      END;  
592      P 0588      4  
593      P 0589      4      IF cli$present(%ASCID 'UNLOAD')  
594      P 0590      4      THEN  
595      P 0591      4      BEGIN  
596      P 0592      4      status = $QIOW(CHAN = .channel,  
597      P 0593      4      IOSB = iosb,  
598      P 0594      4      FUNC = ios$_rewindoff);  
599      P 0595      4  
600      P 0596      4      IF .status  
601      P 0597      4      THEN status = .iosb[0];  
602      P 0598      4      IF NOT .status  
603      P 0599      4      THEN SIGNAL(set$_writeerr, 1, desc, .status)  
604      P 0600      4      ELSE IF .flags[set$_log]  
605      P 0601      4      THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UNLOAD');
```



Page 16  
(5)

.PSECT SPLITS,NOWRT,NOEXE,2

[illegible]

```

      00000000' 0014C .ADDRESS P.ABR
50 49 4B 53 00150 P.ABT: .ASCII \SKIP\
      010E0004' 00154 P.ABS: .LONG 17694724
      00000000' 00158 .ADDRESS P.ABT
53 44 52 4F 43 45 52 2E 50 49 4B 53 0015C P.ABV: .ASCII \SKIP.RECORDS\
      010E000C' 00168 P.ABU: .LONG 17694732
      00000000' 0016C .ADDRESS P.ABV
50 49 4B 53 00170 P.ABX: .ASCII \SKIP\
      010E0004' 00174 P.ABW: .LONG 17694724
      00000000' 00178 .ADDRESS P.ABX
00 00 53 45 4C 49 46 5F 50 49 4B 53 0017C P.ABZ: .ASCII \SKIP.FILES\<0><0>
      010E000A' 00188 P.ABY: .LONG 17694730
      00000000' 0018C .ADDRESS P.ABZ
53 44 52 4F 43 45 52 5F 50 49 4B 53 00190 P.ACB: .ASCII \SKIP.RECORDS\
      010E000C' 0019C P.ACA: .LONG 17694732
      00000000' 001A0 .ADDRESS P.ACB
      00 00 44 4E 49 57 45 52 001A4 P.ACD: .ASCII \REWIND\<0><0>
      010E0006' 001AC P.ACC: .LONG 17694726
      00000000' 001B0 .ADDRESS P.ACD
      00 00 44 4E 49 57 45 52 001B4 P.ACF: .ASCII \REWIND\<0><0>
      010E0006' 001BC P.ACE: .LONG 17694726
      00000000' 001C0 .ADDRESS P.ACF
      00 00 44 41 4F 4C 4E 55 001C4 P.ACH: .ASCII \UNLOAD\<0><0>
      010E0006' 001CC P.ACG: .LONG 17694726
      00000000' 001D0 .ADDRESS P.ACH
      00 00 44 41 4F 4C 4E 55 001D4 P.ACJ: .ASCII \UNLOAD\<0><0>
      010E0006' 001DC P.ACI: .LONG 17694726
      00000000' 001E0 .ADDRESS P.ACJ
```

```

                                OFFC 00000
5B 00000000G 00 9E 00002
5A 00000000G 8F D0 00009
59 00000000G 00 9E 00010
58 00000000G 00 9E 00017
57 00000000G 00 9E 0001E
56 00000000G 00 9E 00025
55 00000000' EF 9E 0002C
5E          3C C2 00033
      08 AE D4 00036
34 AE 020E0000 8F D0 00039
      38 AE D4 00041
2C AE 020E0000 8F D0 00044
      30 AE D4 0004C
      34 AE 9F 0004F
      55 DD 00052
69          02 FB 00054
      7E 7C 00057
      08 AE 9F 00059
      40 AE 9F 0005C
00000000G 00 04 FB 0005F
      52 50 D0 00066
      20 52 E9 00069
```

.PSECT \$CODE\$,NOWRT,2

```

.ENTRY SETSMAGTAPE, Save R2,R3,R4,R5,R6,R7,R8,R9,- 0260
      R10,R11
MOVAB LIB$CVT DTB, R11
MOVL #SET$ WRITEERR, R10
MOVAB CLISGET VALUE, R9
MOVAB CLISPRESENT, R8
MOVAB SYSSQIOW, R7
MOVAB LIB$SIGNAL, R6
MOVAB P.AAM, R5
SUBL2 #60, $P
CLRL FLAGS 0261
MOVL #34471936, DESC 0295
CLRL DESC+4
MOVL #34471936, VALUE_DESC 0296
CLRL VALUE_DESC+4 0297
PUSHAB DESC
PUSHL R5
CALLS #2, CLISGET_VALUE 0304
CLRQ -(SP)
PUSHAB CHANNEL
PUSHAB DESC
CALLS #4, SYSS$ASSIGN
MOVL R0, STATUS
BLBC STATUS, 18
```

	24	AE		18	OC	DO	0006C	MOVL	#12, INFO_DESC	0313
	28	AE		24	AE	9E	00070	MOVAB	INFO_BLOCK, INFO_DESC+4	0314
					AE	9F	00075	PUSHAB	INFO_DESC	0316
					7E	7C	00078	CLRG	-(SP)	
					7E	D4	0007A	CLRL	-(SP)	
	54		10		AE	3C	0007C	MOVZWL	CHANNEL, R4	
					54	DD	00080	PUSHL	R4	
00000000G	00				05	FB	00082	CALLS	#5, SYSSGETCHN	
	52				50	DO	00089	MOVL	R0, STATUS	
	03				52	EB	0008C	BLBS	STATUS, 2\$	
				038B	31		0008F	BRW	44\$	
	02		1C		AE	91	00092	CMPB	INFO_BLOCK+4, #2	0323
					08	13	00096	BEQL	3\$	
				00000000G	8F	DD	00098	PUSHL	#CLIS_IVDEVTYPE	0326
					15	11	0009E	BRB	5\$	
06	1A	AE			03	EO	000A0	BBS	#3, INFO_BLOCK+2, 4\$	0330
		7E		7C	8F	9A	000A5	MOVZBL	#124, -(SP)	0333
					0A	11	000A9	BRB	5\$	
	10			1B	AE	EB	000AB	BLBS	INFO_BLOCK+3, 6\$	0336
				00000000G	8F	DD	000AF	PUSHL	#CLIS_DEVNOTFOR	0339
				38	AE	9F	000B5	PUSHAB	DESC	
					01	DD	000B8	PUSHL	#1	
					5A	DD	000BA	PUSHL	R10	
				0376	31		000BC	BRW	46\$	
				0C	A5	9F	000BF	PUSHAB	P.AAO	0346
	68				01	FB	000C2	CALLS	#1, CLISPRESENT	
08	AE		01		50	FO	000C5	INSV	R0, #0, #1, FLAGS	
	00			2C	AE	9F	000CB	PUSHAB	VALUE_DESC	0351
				1C	A5	9F	000CE	PUSHAB	P.AAO	
	69				02	FB	000D1	CALLS	#2, CLISGET_VALUE	
08	AE		01		50	FO	000D4	INSV	R0, #1, #1, -FLAGS	
	01				50	E9	000DA	BLBC	R0, 11\$	
	64			04	AE	9F	000DD	PUSHAB	DENSITY	0354
				3	AE	DD	000E0	PUSHL	VALUE_DESC+4	0355
				34	AE	3C	000E3	MOVZWL	VALUE_DESC, -(SP)	0354
	7E				03	FB	000E7	CALLS	#3, LIBSCVT_DTB	
	6B				50	DO	000EA	MOVL	R0, STATUS	
	52				52	EB	000ED	BLBS	STATUS, 7\$	
	06			2C	A5	9F	000F0	PUSHAB	P.AAS	0359
				0228	31		000F3	BRW	32\$	
	00000640	8F		04	AE	D1	000F6	CMPL	DENSITY, #1600	0362
					0C	12	000FE	BNEQ	8\$	
	08	AE			04	88	00100	BISB2	#4, FLAGS	0365
21	AE		05		04	FO	00104	INSV	#4, #0, #5, MT_CHAR+1	0366
					35	11	0010A	BRB	11\$	0362
	00000320	8F		04	AE	D1	0010C	CMPL	DENSITY, #800	0368
					0C	12	00114	BNEQ	9\$	
	08	AE			08	88	00116	BISB2	#8, FLAGS	0371
21	AE		05		03	FO	0011A	INSV	#3, #0, #5, MT_CHAR+1	0372
					1F	11	00120	BRB	11\$	0368
	0000186A	8F		04	AE	D1	00122	CMPL	DENSITY, #6250	0374
					0C	12	0012A	BNEQ	10\$	
	08	AE			10	88	0012C	BISB2	#16, FLAGS	0377
21	AE		05		05	FO	00130	INSV	#5, #0, #5, MT_CHAR+1	0378
					09	11	00136	BRB	11\$	0374
				3C	A5	9F	00138	PUSHAB	P.AAU	0382
				38	AE	9F	0013B	PUSHAB	DESC	



			01E0	31	0013E	BRW	33\$		
			4C	A5	9F 00141	11\$: PUSHAB	P.AAW		0390
		68		01	FB 00144	CALLS	#1, CLISPRESNT		
		52		50	D0 00147	MOVL	R0, STATUS		
	00000000G	8F		52	D1 0014A	CMPL	STATUS, #CLIS_ABSENT		
				1E	13 00151	BEQL	13\$		
	00000000G	8F		52	D1 00153	CMPL	STATUS, #CLIS_NEGATED		0393
				0B	13 0015A	BEQL	12\$		
	08	AE		20	88 0015C	BISB2	#32, FLAGS		0396
	21	AE	40	8F	88 00160	BISB2	#64, MT_CHAR+1		0397
				0A	11 00165	BRB	13\$		0393
	08	AE	40	8F	88 00167	12\$: BISB2	#64, FLAGS		0401
	21	AE	40	8F	8A 0016C	BICB2	#64, MT_CHAR+1		0402
0A	08	AE		01	E0 00171	13\$: BBS	#1, FLAGS, 14\$		0406
05	08	AE		05	E0 00176	BBS	#5, FLAGS, 14\$		0407
69	08	AE		06	E1 0017B	BBC	#6, FLAGS, 20\$		0408
				7E	7C 00180	14\$: CLRQ	-(SP)		0415
				7E	7C 00182	CLRQ	-(SP)		
				08	DD 00184	PUSHL	#8		
			30	AE	9F 00186	PUSHAB	INFO_BLOCK+4		
				7E	7C 00189	CLRQ	-(SP)		
			30	AE	9F 0018B	PUSHAB	IOSB		
				23	DD 0018E	PUSHL	#35		
				54	DD 00190	PUSHL	R4		
				7E	D4 00192	CLRL	-(SP)		
	67			0C	FB 00194	CALLS	#12, SYS\$QIOW		
	52			50	D0 00197	MOVL	R0, STATUS		
	07			52	E9 0019A	BLBC	STATUS, 15\$		0417
	52		10	AE	3C 0019D	MOVZWL	IOSB, STATUS		0418
	0E			52	E8 001A1	BLBS	STATUS, 16\$		0419
				52	DD 001A4	15\$: PUSHL	STATUS		0420
			38	AE	9F 001A6	PUSHAB	DESC		
				01	DD 001A9	PUSHL	#1		
				5A	DD 001AB	PUSHL	R10		
	66			04	FB 001AD	CALLS	#4, LIB\$SIGNAL		
				37	11 001B0	BRB	20\$		
	33		08	AE	E9 001B2	16\$: BLBC	FLAGS, 20\$		0421
2E	08	AE		01	E1 001B6	BBC	#1, FLAGS, 20\$		0424
06	08	AE		02	E1 001BB	BBC	#2, FLAGS, 17\$		0426
		50	68	A5	9E 001C0	MOVAB	P.ABA, R0		0427
				10	11 001C4	BRB	19\$		
06	08	AE		03	E1 001C6	17\$: BBC	#3, FLAGS, 18\$		0428
		50	74	A5	9E 001CB	MOVAB	P.ABC, R0		0429
				05	11 001CF	BRB	19\$		
		50	0080	C5	9E 001D1	18\$: MOVAB	P.ABE, R0		0430
				50	DD 001D6	19\$: PUSHL	R0		0428
		5C		A5	9F 001D8	PUSHAB	P.AAY		0425
		3C		AE	9F 001DB	PUSHAB	DESC		
				03	DD 001DE	PUSHL	#3		
	00000000G			8F	DD 001E0	PUSHL	#SETS_DEVSET2		
				05	FB 001E6	CALLS	#5, LIB\$SIGNAL		
	66			C5	9F 001E9	20\$: PUSHAB	P.ABG		0438
				01	FB 001ED	CALLS	#1, CLISPRESNT		
	68			50	E9 001F0	BLBC	R0, 24\$		
	4B			01	D0 001F3	MOVL	#1, INDEX		0441
	53			7E	7C 001F6	21\$: CLRQ	-(SP)		0445
				7E	7C 001F8	CLRQ	-(SP)		

DB

		7E	7C	001FA	CLRQ	-(SP)	
		7E	7C	001FC	CLRQ	-(SP)	
	30	AE	9F	001FE	PUSHAB	IOSB	
		1C	DD	00201	PUSHL	#28	
		54	DD	00203	PUSHL	R4	
		7E	D4	00205	CLRL	-(SP)	
67		OC	FB	00207	CALLS	#12, SYSSQIOW	
52		50	DD	0020A	MOVL	R0, STATUS	
OE		52	E9	0020D	BLBC	STATUS, 22\$	0446
52	10	AE	3C	00210	MOVZWL	IOSB, STATUS	0447
07		52	E9	00214	BLBC	STATUS, 22\$	0448
53		02	F3	00217	AOBLEQ	#2, INDEX, 21\$	0441
OE		52	E8	0021B	BLBS	STATUS, 23\$	0451
		52	DD	0021E	PUSHL	STATUS	0452
	38	AE	9F	00220	PUSHAB	DESC	
		01	DD	00223	PUSHL	#1	
		5A	DD	00225	PUSHL	R10	
66		04	FB	00227	CALLS	#4, LIBSSIGNAL	
		12	11	0022A	BRB	24\$	
OE	08	AE	E9	0022C	BLBC	FLAGS, 24\$	0453
	34	AE	9F	00230	PUSHAB	DESC	0454
		01	DD	00233	PUSHL	#1	
	00000000G	8F	DD	00235	PUSHL	#SETS EOFSET	
66		03	FB	0023B	CALLS	#3, LIBSSIGNAL	
	00AC	C5	9F	0023E	PUSHAB	P.ABI	0457
68		01	FB	00242	CALLS	#1, CLISPRESNT	
4E		50	E9	00245	BLBC	R0, 29\$	
		7E	7C	00248	CLRQ	-(SP)	0465
		7E	7C	0024A	CLRQ	-(SP)	
		7E	D4	0024C	CLRL	-(SP)	
7E	7FFF	8F	3C	0024E	MOVZWL	#32767, -(SP)	
		7E	7C	00253	CLRQ	-(SP)	
	30	AE	9F	00255	PUSHAB	IOSB	
		25	DD	00258	PUSHL	#37	
		54	DD	0025A	PUSHL	R4	
		7E	D4	0025C	CLRL	-(SP)	
67		OC	FB	0025E	CALLS	#12, SYSSQIOW	
52		50	DD	00261	MOVL	R0, STATUS	
OE		52	E9	00264	BLBC	STATUS, 26\$	0466
52	10	AE	3C	00267	MOVZWL	IOSB, STATUS	0467
07		52	E9	0026B	BLBC	STATUS, 26\$	0468
D6	16	AE	E9	0026E	BLBC	IOSB+6, 25\$	0471
0B		52	E8	00272	BLBS	STATUS, 27\$	0472
		52	DD	00275	PUSHL	STATUS	0473
	38	AE	9F	00277	PUSHAB	DESC	
		01	DD	0027A	PUSHL	#1	
		5A	DD	0027C	PUSHL	R10	
		13	11	0027E	BRB	28\$	
12	08	AE	E9	00280	BLBC	FLAGS, 29\$	0474
	00C0	C5	9F	00284	PUSHAB	P.ABK	0475
	38	AE	9F	00288	PUSHAB	DESC	
		02	DD	0028B	PUSHL	#2	
	00000000G	8F	DD	0028D	PUSHL	#SETS DEVSET1	
66		04	FB	00293	CALLS	#4, LIBSSIGNAL	
		53	D4	00296	CLRL	FUNCTION	0478
	2C	AE	9F	00298	PUSHAB	VALUE_DESC	0479
	00D4	C5	9F	0029B	PUSHAB	P.ABM	

69	02	FB	0029F	CALLS	#2, CLISGET_VALUE	
21	50	E9	002A2	BLBC	R0, 30\$	
53	25	DO	002A5	MOVL	#37, FUNCTION	0482
08	8F	88	002A8	BISB2	#128, FLAGS	0483
AE	AE	9F	002AD	PUSHAB	COUNT	0484
	34	DD	002B0	PUSHL	VALUE_DESC+4	0485
7E	34	3C	002B3	MOVZWL	VALUE_DESC, -(SP)	0484
68	03	FB	002B7	CALLS	#3, LIB\$CVT_DTB	
52	50	DO	002BA	MOVL	R0, STATUS	
6C	52	E8	002BD	BLBS	STATUS, 34\$	
	C5	9F	002C0	PUSHAB	P.ABO	0489
	58	11	002C4	BRB	32\$	
	AE	9F	002C6	PUSHAB	VALUE_DESC	0493
	C5	9F	002C9	PUSHAB	P.ABO	
69	02	FB	002CD	CALLS	#2, CLISGET_VALUE	
20	50	E9	002D0	BLBC	R0, 31\$	0496
53	26	DO	002D3	MOVL	#38, FUNCTION	0497
09	01	88	002D6	BISB2	#1, FLAGS+1	0498
AE	AE	9F	002DA	PUSHAB	COUNT	0499
	34	DD	002DD	PUSHL	VALUE_DESC+4	0498
7E	34	3C	002E0	MOVZWL	VALUE_DESC, -(SP)	
68	03	FB	002E4	CALLS	#3, LIB\$CVT_DTB	
52	50	DO	002E7	MOVL	R0, STATUS	
3F	52	E8	002EA	BLBS	STATUS, 34\$	
	C5	9F	002ED	PUSHAB	P.ABS	0503
	2B	11	002F1	BRB	32\$	
	AE	9F	002F3	PUSHAB	VALUE_DESC	0507
	C5	9F	002F6	PUSHAB	P.ABU	
69	02	FB	002FA	CALLS	#2, CLISGET_VALUE	
2C	50	E9	002FD	BLBC	R0, 34\$	0510
53	26	DO	00300	MOVL	#38, FUNCTION	0511
09	01	88	00303	BISB2	#1, FLAGS+1	0512
AE	AE	9F	00307	PUSHAB	COUNT	0513
	34	DD	0030A	PUSHL	VALUE_DESC+4	0512
7E	34	3C	0030D	MOVZWL	VALUE_DESC, -(SP)	
68	03	FB	00311	CALLS	#3, LIB\$CVT_DTB	
52	50	DO	00314	MOVL	R0, STATUS	
12	52	E8	00317	BLBS	STATUS, 34\$	
	C5	9F	0031A	PUSHAB	P.ABW	0517
	AE	9F	0031E	PUSHAB	VALUE_DESC	
	02	DD	00321	PUSHL	#2	
0077132A	8F	DD	00323	PUSHL	#7803690	
	31	00329	BRW	46\$		
	53	D5	0032C	TSTL	FUNCTION	0522
	76	13	0032E	BEQL	39\$	
	7E	7C	00330	CLRQ	-(SP)	0528
	7E	7C	00332	CLRQ	-(SP)	
	7E	D4	00334	CLRL	-(SP)	
	AE	DD	00336	PUSHL	COUNT	
	7E	7C	00339	CLRQ	-(SP)	
	AE	9F	0033B	PUSHAB	IOSB	
	53	DD	0033E	PUSHL	FUNCTION	
	54	DD	00340	PUSHL	R4	
	7E	D4	00342	CLRL	-(SP)	
67	OC	FB	00344	CALLS	#12, SYSSQIOW	
52	50	DO	00347	MOVL	R0, STATUS	
28	52	E9	0034A	BLBC	STATUS, 35\$	0529

52	10	AE	3C	0034D	MOVZWL	IOSB, STATUS	0530
24		52	E9	00351	BLBC	STATUS, 35\$	0531
	0C	AE	D5	00354	TSTL	COUNT	0541
		25	18	00357	BGEQ	36\$	
		7E	7C	00359	CLRQ	-(SP)	0547
		7E	7C	0035B	CLRQ	-(SP)	
7E		01	7D	0035D	MOVQ	#1, -(SP)	
		7E	7C	00360	CLRQ	-(SP)	
	30	AE	9F	00362	PUSHAB	IOSB	
		53	DD	00365	PUSHL	FUNCTION	
		54	DD	00367	PUSHL	R4	
		7E	D4	00369	CLRL	-(SP)	
67		0C	FB	0036B	CALLS	#12, SYSSQIOW	
52		50	DD	0036E	MOVL	R0, STATUS	
04		52	E9	00371	BLBC	STATUS, 35\$	0548
52	10	AE	3C	00374	MOVZWL	IOSB, STATUS	0549
03		52	E8	00378	BLBS	STATUS, 36\$	0550
		009F	31	0037B	BRW	44\$	
24	08	AE	E9	0037E	BLBC	FLAGS, 39\$	0562
	2C	AE	9F	00382	PUSHAB	VALUE_DESC	0563
	0C	AE	95	00385	TSTB	FLAGS	0564
		07	18	00388	BGEQ	37\$	
50	0134	C5	9E	0038A	MOVAB	P.ABY, R0	0565
		05	11	0038F	BRB	38\$	
50	0148	C5	9E	00391	MOVAB	P.ACA, R0	0566
		50	DD	00396	PUSHL	R0	
	3C	AE	9F	00398	PUSHAB	DESC	0563
		03	DD	0039B	PUSHL	#3	
	00000000G	8F	DD	0039D	PUSHL	#SETS DEVSET2	
66		05	FB	003A3	CALLS	#5, LIB\$SIGNAL	
	0158	C5	9F	003A6	PUSHAB	P.ACC	0573
68		01	FB	003AA	CALLS	#1, CLISPRESNT	
42		50	E9	003AD	BLBC	R0, 43\$	0578
		7E	7C	003B0	CLRQ	-(SP)	
		7E	7C	003B2	CLRQ	-(SP)	
		7E	7C	003B4	CLRQ	-(SP)	
		7E	7C	003B6	CLRQ	-(SP)	
	30	AE	9F	003B8	PUSHAB	IOSB	
		24	DD	003BB	PUSHL	#36	
		54	DD	003BD	PUSHL	R4	
		7E	D4	003BF	CLRL	-(SP)	
67		0C	FB	003C1	CALLS	#12, SYSSQIOW	
52		50	DD	003C4	MOVL	R0, STATUS	
07		52	E9	003C7	BLBC	STATUS, 40\$	0579
52	10	AE	3C	003CA	MOVZWL	IOSB, STATUS	0580
08		52	E8	003CE	BLBS	STATUS, 41\$	0581
		52	DD	003D1	PUSHL	STATUS	0584
	38	AE	9F	003D3	PUSHAB	DESC	
		01	DD	003D6	PUSHL	#1	
		5A	DD	003D8	PUSHL	R10	
		13	11	003DA	BRB	42\$	
12	08	AE	E9	003DC	BLBC	FLAGS, 43\$	0586
	0168	C5	9F	003E0	PUSHAB	P.ACE	0587
	38	AE	9F	003E4	PUSHAB	DESC	
		02	DD	003E7	PUSHL	#2	
	00000000G	8F	DD	003E9	PUSHL	#SETS DEVSET1	
66		04	FB	003EF	CALLS	#4, LIB\$SIGNAL	



SETDEVS  
V04-000

N 14  
16-Sep-1984 00:47:57  
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]SETDEVS.B32:1

Page 23  
(5)

68	0178	C5	9F	003F2	43\$:	PUSHAB	P.ACG		0590
3C		01	FB	003F6		CALLS	#1, CLISPRESENT		
		50	E9	003F9		BLBC	R0, 47\$		
		7E	7C	003FC		CLRG	-(SP)		0595
		7E	7C	003FE		CLRG	-(SP)		
		7E	7C	00400		CLRG	-(SP)		
		7E	7C	00402		CLRG	-(SP)		
	30	AE	9F	00404		PUSHAB	IOSB		
		22	DD	00407		PUSHL	#34		
		54	DD	00409		PUSHL	R4		
		7E	D4	0040B		CLRL	-(SP)		
67		0C	FB	0040D		CALLS	#12, SYSSQ10W		
52		50	DD	00410		MOVL	R0, STATUS		
07		52	E9	00413		BLBC	STATUS, 44\$		0596
52	10	AE	3C	00416		MOVZWL	IOSB, STATUS		0597
05		52	E8	0041A		BLBS	STATUS, 45\$		0598
		52	DD	0041D	44\$:	PUSHL	STATUS		0599
		FC93	31	0041F		BRW	5\$		
12	08	AE	E9	00422	45\$:	BLBC	FLAGS, 47\$		0600
	0188	C5	9F	00426		PUSHAB	P.ACI		0601
	38	AE	9F	0042A		PUSHAB	DESC		
		02	DD	0042D		PUSHL	#2		
	00000000G	8F	DD	0042F		PUSHL	#SET\$ DEVSET1		
66		04	FB	00435	46\$:	CALLS	#4, LIB\$SIGNAL		
		04	00	00438	47\$:	RET			0605

; Routine Size: 1081 bytes, Routine Base: \$CODE\$ + 0118

```
611 0606 1 GLOBAL ROUTINE set$printer : NOVALUE =
612 0607 BEGIN
613 0608 ++
614 0609 Functional description
615 0610
616 0611 This is the routine for the SET PRINTER command. It is called
617 0612 from the SET command processor, and sets the characteristics of
618 0613 a printer.
619 0614
620 0615 Inputs
621 0616 None
622 0617
623 0618 Outputs
624 0619 None
625 0620
626 0621 ----
627 0622
628 0623 LOCAL
629 0624 status, | Status return
630 0625 width_desc : $BBLOCK[dsc$c s bln], | /WIDTH descriptor
631 0626 page_desc : $BBLOCK[dsc$c s bln], | /PAGE descriptor
632 0627 desc : $BBLOCK[dsc$c s bln], | General purpose descriptor
633 0628 flags : $BBLOCK[4] INITIAL (0), | Flags longword
634 0629 info_desc : VECTOR[2], | $GETCHN descriptor
635 0630 info_block : $BBLOCK[12], | $GETCHN information block
636 0631 channel : WORD, | I/O channel
637 0632 iosb : VECTOR[4,WORD]; | I/O status block
638 0633
639 0634 BIND lp_char = info_block[dib$l_devdepend] : $BBLOCK[3];
640 0635
641 0636 |
642 0637 | Collect the name of the printer.
643 0638 |
644 0639 $init_dyndesc(desc); | Make the descriptors dynamic
645 0640 $init_dyndesc(width_desc);
646 0641 $init_dyndesc(page_desc);
647 0642 cli$get_value(%ASCII 'DEVICE',
648 0643 desc);
649 0644
650 0645 |
651 0646 | Assign a channel to the device.
652 0647 |
653 P 0648 IF NOT (status = $ASSIGN(DEVNAM = desc,
654 0649 CHAN = channel))
655 0650 THEN
656 0651 BEGIN
657 0652 SIGNAL(set$writeerr, 1, desc, .status);
658 0653 RETURN;
659 0654 END;
660 0655
661 0656 | Determine if it is indeed a printer
662 0657 |
663 0658 info_desc[0] = 12; | Set up the descriptor
664 0659 info_desc[1] = info_block; | for $GETCHN
665 P 0660 IF NOT (status = $GETCHN(SCDBUF = info_desc, | Issue the $GETCHN, asking for
666 0661 CHAN = .channel)) | secondary characteristics (in
667 0662 2 THEN | case it's spooled)
```

```

668 0663 BEGIN
669 0664 SIGNAL(set$_writeerr, 1, desc, .status); ! If a problem, signal it.
670 0665 RETURN;
671 0666 END;
672 0667
673 0668 IF .info_block[dib$b_devclass] NEQU dc$_lp ! If not a printer,
674 0669 THEN ! signal that it's not.
675 0670 BEGIN
676 0671 SIGNAL(set$_writeerr, 1, desc,
677 0672 cli$_ivdevtype);
678 0673 END;
679 0674
680 0675
681 0676 Determine what characteristics to set, and whether to log it.
682 0677
683 0678 flags[set$_v_log] = cli$present(%ASCII 'LOG');
684 0679
685 0680
686 0681 Real characteristics
687 0682
688 0683 IF (status = cli$present(%ASCII 'FF')) NEQ cli$_absent
689 0684 THEN
690 0685 BEGIN
691 0686 IF .status NEQ cli$_negated
692 0687 THEN flags[set$_v_ff] = lp_char[lp$_v_mechform] = 1
693 0688 ELSE
694 0689 BEGIN
695 0690 flags[set$_v_noff] = 1;
696 0691 lp_char[lp$_v_mechform] = 0;
697 0692 END;
698 0693 END;
699 0694
700 0695 IF (status = cli$present(%ASCII 'CR')) NEQ cli$_absent
701 0696 THEN
702 0697 BEGIN
703 0698 IF .status NEQ cli$_negated
704 0699 THEN flags[set$_v_cr] = lp_char[lp$_v_cr] = 1
705 0700 ELSE
706 0701 BEGIN
707 0702 flags[set$_v_nocr] = 1;
708 0703 lp_char[lp$_v_cr] = 0;
709 0704 END;
710 0705 END;
711 0706
712 0707 IF (status = cli$present(%ASCII 'PASSALL')) NEQ cli$_absent
713 0708 THEN
714 0709 BEGIN
715 0710 IF .status NEQ cli$_negated
716 0711 THEN flags[set$_v_pass] = lp_char[lp$_v_passall] = 1
717 0712 ELSE
718 0713 BEGIN
719 0714 flags[set$_v_nopass] = 1;
720 0715 lp_char[lp$_v_passall] = 0;
721 0716 END;
722 0717 END;
723 0718
724 0719 IF (status = cli$present(%ASCII 'PRINTALL')) NEQ cli$_absent
```

```

725 0720 2 THEN
726 0721 BEGIN
727 0722 IF .status NEQ cli$_negated
728 0723 THEN flags[set$$_print] = lp_char[lp$$_printall] = 1
729 0724 ELSE
730 0725 BEGIN
731 0726 flags[set$$_noprint] = 1;
732 0727 lp_char[lp$$_printall] = 0;
733 0728 END;
734 0729 END;
735 0730
736 0731 IF (status = cli$present(%ASCII 'WRAP')) NEQ cli$$_absent
737 0732 THEN
738 0733 BEGIN
739 0734 IF .status NEQ cli$$_negated
740 0735 THEN flags[set$$_wrap] = lp_char[lp$$_wrap] = 1
741 0736 ELSE
742 0737 BEGIN
743 0738 flags[set$$_nowrap] = 1;
744 0739 lp_char[lp$$_wrap] = 0;
745 0740 END;
746 0741 END;
747 0742
748 0743 IF (status = cli$present(%ASCII 'UPPERCASE')) NEQ cli$$_absent
749 0744 THEN
750 0745 BEGIN
751 0746 IF .status EQL cli$$_negated
752 0747 THEN flags[set$$_lower] = lp_char[lp$$_lower] = 1
753 0748 ELSE
754 0749 BEGIN
755 0750 flags[set$$_upper] = 1;
756 0751 lp_char[lp$$_lower] = 0;
757 0752 END;
758 0753 END;
759 0754
760 0755 IF (status = cli$present(%ASCII 'LOWERCASE')) NEQ cli$$_absent
761 0756 THEN
762 0757 BEGIN
763 0758 IF .status NEQ cli$$_negated
764 0759 THEN flags[set$$_lower] = lp_char[lp$$_lower] = 1
765 0760 ELSE
766 0761 BEGIN
767 0762 flags[set$$_upper] = 1;
768 0763 lp_char[lp$$_lower] = 0;
769 0764 END;
770 0765 END;
771 0766
772 0767 IF (status = cli$present(%ASCII 'FALLBACK')) NEQ cli$$_absent
773 0768 THEN
774 0769 BEGIN
775 0770 IF .status NEQ cli$$_negated
776 0771 THEN flags[set$$_fallback] = lp_char[lp$$_fallback] = 1
777 0772 ELSE
778 0773 BEGIN
779 0774 flags[set$$_nofallback] = 1;
780 0775 lp_char[lp$$_fallback] = 0;
781 0776
```



```
0777 END;
0778 END;
0779
0780 IF (status = cli$present(%ASCII 'TRUNCATE')) NEQ cli$_absent
0781 THEN
0782 BEGIN
0783 IF .status NEQ cli$_negated
0784 THEN flags[set$_truncate] = lp_char[lp$_truncate] = 1
0785 ELSE
0786 BEGIN
0787 flags[set$_nottruncate] = 1;
0788 lp_char[lp$_truncate] = 0;
0789 END;
0790 END;
0791
0792 IF (status = cli$present(%ASCII 'TAB')) NEQ cli$_absent
0793 THEN
0794 BEGIN
0795 IF .status NEQ cli$_negated
0796 THEN flags[set$_tab] = lp_char[lp$_tab] = 1
0797 ELSE
0798 BEGIN
0799 flags[set$_notab] = 1;
0800 lp_char[lp$_tab] = 0;
0801 END;
0802 END;
0803
0804 IF (status = cli$present(%ASCII 'SIXELS')) NEQ cli$_absent
0805 THEN
0806 BEGIN
0807 IF .status NEQ cli$_negated
0808 THEN flags[set$_sixels] = lp_char[lp$_sixels] = 1
0809 ELSE
0810 BEGIN
0811 flags[set$_nosixel] = 1;
0812 lp_char[lp$_sixels] = 0;
0813 END;
0814 END;
0815
0816 IF (status = cli$present(%ASCII 'BITMAPPED')) NEQ cli$_absent
0817 THEN
0818 BEGIN
0819 IF .status NEQ cli$_negated
0820 THEN flags[set$_bitmapped] = lp_char[lp$_bitmapped] = 1
0821 ELSE
0822 BEGIN
0823 flags[set$_nobitmapped] = 1;
0824 lp_char[lp$_bitmapped] = 0;
0825 END;
0826 END;
0827
0828
0829
0830
0831
0832
0833
0834
0835
0836
0837
0838
```



```
896      BEGIN
897      SIGNAL(set$_valerr);
898      RETURN;
899      END;
900      info_block[dib$_devbufsiz] = .width;
901      END;
902
903      .....
904      Set the specified characteristic.
905
906      P      status = $QIOW(CHAN = .channel,
907      P      FUNC = IOS$_SETMODE,
908      P      IOSB = iosb,
909      P      P1 = info_block[dib$_devclass],
910      P      P2 = 8);
911
912      IF .status
913      THEN status = .iosb[0];
914      IF NOT .status
915      THEN SIGNAL(set$_writeerr, 1, desc, .status)
916
917      .....
918      If /LOG, then say what was changed.
919
920      ELSE IF .flags[set$_v_log]
921      THEN
922      BEGIN
923      IF .flags[set$_v_ff]
924      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'FF')
925      ELSE IF .flags[set$_v_noff]
926      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'NOFF');
927
928      IF .flags[set$_v_cr]
929      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'CR')
930      ELSE IF .flags[set$_v_nocr]
931      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'NOCR');
932
933      IF .flags[set$_v_pass]
934      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'PASSALL')
935      ELSE IF .flags[set$_v_nopass]
936      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'NOPASSALL');
937
938      IF .flags[set$_v_print]
939      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'PRINTALL')
940      ELSE IF .flags[set$_v_noprint]
941      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'NOPRINTALL');
942
943      IF .flags[set$_v_wrap]
944      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'WRAP')
945      ELSE IF .flags[set$_v_nowrap]
946      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'NOWRAP');
947
948      IF .flags[set$_v_lower]
949      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'LOWERCASE')
950      ELSE IF .flags[set$_v_upper]
951      THEN SIGNAL(set$_devset1, 2, desc, XASCID 'UPPERCASE');
952
```

.PSECT SPLITS,NOWRT,NOEXE,2

```

00 00 45 43 49 56 45 44 001E4 P.ACL: .ASCII \DEVICE\<0><0>
          010E0006 001EC P.ACK: .LONG 17694726
          00000000 001F0 .ADDRESS P.ACL
00 47 4F 4C 001F4 P.ACN: .ASCII \LOG\<0>
          010E0003 001F8 P.ACM: .LONG 17694723
          00000000 001FC .ADDRESS P.ACN
00 00 46 46 00200 P.ACP: .ASCII \F\<0><0>
          010E0002 00204 P.ACO: .LONG 17694722
          00000000 00208 .ADDRESS P.ACP

```



```
00 00 52 43 0020C P.ACR: .ASCII \CR\<0><0>
010E0002 00210 P.ACQ: .LONG 17694722
00000000 00214 .ADDRESS P.ACR
00 4C 4C 41 53 53 41 50 00218 P.ACT: .ASCII \PASSALL\<0>
010E0007 00220 P.ACS: .LONG 17694727
00000000 00224 .ADDRESS P.ACT
4C 4C 41 54 4E 49 52 50 00228 P.ACV: .ASCII \PRINTALL\
010E0008 00230 P.ACU: .LONG 17694728
00000000 00234 .ADDRESS P.ACV
50 41 52 57 00238 P.ACX: .ASCII \WRAP\
010E0004 0023C P.ACW: .LONG 17694724
00000000 00240 .ADDRESS P.ACX
00 00 00 45 53 41 43 52 45 50 50 55 00244 P.ACZ: .ASCII \UPPERCASE\<0><0><0>
010E0009 00250 P.ACY: .LONG 17694729
00000000 00254 .ADDRESS P.ACZ
00 00 00 45 53 41 43 52 45 57 4F 4C 00258 P.ADB: .ASCII \LOWERCASE\<0><0><0>
010E0009 00264 P.ADA: .LONG 17694729
00000000 00268 .ADDRESS P.ADB
4B 43 41 42 4C 4C 41 46 0026C P.ADD: .ASCII \FALLBACK\
010E0008 00274 P.ADC: .LONG 17694728
00000000 00278 .ADDRESS P.ADD
45 54 41 43 4E 55 52 54 0027C P.ADF: .ASCII \TRUNCATE\
010E0008 00284 P.ADE: .LONG 17694728
00000000 00288 .ADDRESS P.ADF
00 42 41 54 0028C P.ADH: .ASCII \TAB\<0>
010E0003 00290 P.ADG: .LONG 17694723
00000000 00294 .ADDRESS P.ADH
00 00 53 4C 45 58 49 53 00298 P.ADJ: .ASCII \SIXELS\<0><0>
010E0006 002A0 P.ADI: .LONG 17694726
00000000 002A4 .ADDRESS P.ADJ
00 00 00 44 45 50 50 41 4D 54 49 42 002A8 P.ADL: .ASCII \BITMAPPED\<0><0><0>
010E0009 002B4 P.ADK: .LONG 17694729
00000000 002B8 .ADDRESS P.ADL
31 31 50 4C 002BC P.ADN: .ASCII \LP11\
010E0004 002C0 P.ADM: .LONG 17694724
00000000 002C4 .ADDRESS P.ADN
00 00 00 30 38 31 41 4C 002C8 P.ADP: .ASCII \LA180\<0><0><0>
010E0005 002D0 P.ADO: .LONG 17694725
00000000 002D4 .ADDRESS P.ADP
31 31 41 4C 002D8 P.ADR: .ASCII \LA11\
010E0004 002DC P.ADQ: .LONG 17694724
00000000 002E0 .ADDRESS P.ADR
00 4E 57 4F 4E 4B 4E 55 002E4 P.ADT: .ASCII \UNKNOWN\<0>
010E0007 002EC P.ADS: .LONG 17694727
00000000 002F0 .ADDRESS P.ADT
45 47 41 50 002F4 P.ADV: .ASCII \PAGE\
010E0004 002F8 P.ADU: .LONG 17694724
00000000 002FC .ADDRESS P.ADV
45 47 41 50 00300 P.ADX: .ASCII \PAGE\
010E0004 00304 P.ADW: .LONG 17694724
00000000 00308 .ADDRESS P.ADX
00 00 00 48 54 44 49 57 0030C P.ADZ: .ASCII \WIDTH\<0><0><0>
010E0005 00314 P.ADY: .LONG 17694725
00000000 00318 .ADDRESS P.ADZ
45 47 41 50 0031C P.AEB: .ASCII \PAGE\
010E0004 00320 P.AEA: .LONG 17694724
00000000 00324 .ADDRESS P.AEB
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00 00 46 46 00328 P.AED: .ASCII \FF\<0><0>
      010E0002 0032C P.AEC: .LONG 17694722
      00000000 00330 .ADDRESS P.AED
46 46 4F 4E 00334 P.AEF: .ASCII \NOFF\
      010E0004 00338 P.AEE: .LONG 17694724
      00000000 0033C .ADDRESS P.AEF
00 00 52 43 00340 P.AEH: .ASCII \CR\<0><0>
      010E0002 00344 P.AEG: .LONG 17694722
      00000000 00348 .ADDRESS P.AEH
52 43 4F 4E 0034C P.AEJ: .ASCII \NOCR\
      010E0004 00350 P.AEI: .LONG 17694724
      00000000 00354 .ADDRESS P.AEJ
      00 4C 4C 41 53 53 41 50 00358 P.AEL: .ASCII \PASSALL\<0>
      010E0007 00360 P.AEK: .LONG 17694727
      00000000 00364 .ADDRESS P.AEL
00 00 00 4C 4C 41 53 53 41 50 00368 P.AEN: .ASCII \NOPASSALL\<0><0><0>
      010E0009 00374 P.AEM: .LONG 17694729
      00000000 00378 .ADDRESS P.AEN
      4C 4C 41 54 4E 49 52 50 0037C P.AEP: .ASCII \PRINTALL\
      010E0008 00384 P.AEO: .LONG 17694728
      00000000 00388 .ADDRESS P.AEP
00 00 4C 4C 41 54 4E 49 52 50 0038C P.AER: .ASCII \NOPRINTALL\<0><0>
      010E000A 00398 P.AEQ: .LONG 17694730
      00000000 0039C .ADDRESS P.AER
      50 41 52 57 003A0 P.AET: .ASCII \WRAP\
      010E0004 003A4 P.AES: .LONG 17694724
      00000000 003A8 .ADDRESS P.AET
      00 00 50 41 52 57 4F 4E 003AC P.AEV: .ASCII \NOWRAP\<0><0>
      010E0006 003B4 P.AEU: .LONG 17694726
      00000000 003B8 .ADDRESS P.AEV
00 00 00 45 53 41 43 52 45 57 4F 4C 003BC P.AEX: .ASCII \LOWERCASE\<0><0><0>
      010E0009 003C8 P.AEW: .LONG 17694729
      00000000 003CC .ADDRESS P.AEX
00 00 00 45 53 41 43 52 45 50 50 55 003D0 P.AEZ: .ASCII \UPPERCASE\<0><0><0>
      010E0009 003DC P.AEY: .LONG 17694729
      00000000 003E0 .ADDRESS P.AEZ
      4B 43 41 42 4C 4C 41 46 003E4 P.AFB: .ASCII \FALLBACK\
      010E0008 003EC P.AFA: .LONG 17694728
      00000000 003F0 .ADDRESS P.AFB
00 00 4B 43 41 42 4C 4C 41 46 4F 4E 003F4 P.AFD: .ASCII \NOFALLBACK\<0><0>
      010E000A 00400 P.AFC: .LONG 17694730
      00000000 00404 .ADDRESS P.AFD
      45 54 41 43 4E 55 52 54 00408 P.AFF: .ASCII \TRUNCATE\
      010E0008 00410 P.AFE: .LONG 17694728
      00000000 00414 .ADDRESS P.AFF
00 00 45 54 41 43 4E 55 52 54 4F 4E 00418 P.AFH: .ASCII \NOTRUNCATE\<0><0>
      010E000A 00424 P.AFG: .LONG 17694730
      00000000 00428 .ADDRESS P.AFH
      00 42 41 54 0042C P.AFJ: .ASCII \TAB\<0>
      010E0003 00430 P.AFI: .LONG 17694723
      00000000 00434 .ADDRESS P.AFJ
      00 00 00 42 41 54 4F 4E 00438 P.AFL: .ASCII \NOTAB\<0><0><0>
      010E0005 00440 P.AFK: .LONG 17694725
      00000000 00444 .ADDRESS P.AFL
      00 00 53 4C 45 58 49 53 00448 P.AFN: .ASCII \SIXELS\<0><0>
      010E0006 00450 P.AFM: .LONG 17694726
      00000000 00454 .ADDRESS P.AFN
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53	4C	45	58	49	53	4F	4E	00458	P.AFP:	.ASCII	\NOSIXELS\	
						010E0008		00460	P.AFO:	.LONG	17694728	
00	00	00	44	45	50	50	41	4D	54	49	42	
						00000000		00464		.ADDRESS	P.AFP	
						010E0009		00468	P.AFR:	.ASCII	\BITMAPPED\<0><0><0>	
00	44	45	50	50	41	4D	54	49	42	4F	4E	
						00000000		00474	P.AFQ:	.LONG	17694729	
						010E000B		00478		.ADDRESS	P.AFR	
						00000000		00480	P.AFT:	.ASCII	\NOBITMAPPED\<0>	
						010E000B		00488	P.AFS:	.LONG	17694731	
						00000000		0048C		.ADDRESS	P.AFT	
					31	31	50	4C	00490	P.AFV:	.ASCII	\LP11\
						010E0004		00494	P.AFU:	.LONG	17694724	
						00000000		00498		.ADDRESS	P.AFV	
00	00	00	30	38	31	41	4C	0049C	P.AFX:	.ASCII	\LA180\<0><0><0>	
						010E0005		004A4	P.AFW:	.LONG	17694725	
						00000000		004A8		.ADDRESS	P.AFX	
					31	31	41	4C	004AC	P.AFZ:	.ASCII	\LA11\
						010E0004		004B0	P.AFY:	.LONG	17694724	
						00000000		004B4		.ADDRESS	P.AFZ	
00	4E	57	4F	4E	4B	4E	55	004B8	P.AGB:	.ASCII	\UNKNOWN\<0>	
						010E0007		004C0	P.AGA:	.LONG	17694727	
						00000000		004C4		.ADDRESS	P.AGB	
					45	47	41	50	004C8	P.AGD:	.ASCII	\PAGE\
						010E0004		004CC	P.AGC:	.LONG	17694724	
						00000000		004D0		.ADDRESS	P.AGD	
00	00	00	48	54	44	49	57	004D4	P.AGF:	.ASCII	\WIDTH\<0><0><0>	
						010E0005		004DC	P.AGE:	.LONG	17694725	
						00000000		004E0		.ADDRESS	P.AGF	

				OFFC	00000
5B	00000000G	00	9E	00002	
5A	00000000G	8F	D0	00009	
59	00000000G	00	9E	00010	
58	00000000G	8F	D0	00017	
57	00000000G	8F	D0	0001E	
56	00000000G	8F	D0	00025	
55	00000000G	00	9E	0002C	
54	00000000G	00	9E	00033	
53	00000000G	EF	9E	0003A	
5E	BC	AE	9E	00041	
	0C	AE	D4	00045	
2C	AE 020E0000	8F	D0	00048	
	30	AE	D4	00050	
3C	AE 020E0000	8F	D0	00053	
	40	AE	D4	0005B	
34	AE 020E0000	8F	D0	0005E	
	38	AE	D4	00066	
	2C	AE	9F	00069	
		53	DD	0006C	
69		02	FB	0006E	
		7E	7C	00071	
	08	AE	9F	00073	
	38	AE	9F	00076	

.PSECT \$CODE\$,NOWRT,2

.ENTRY	SET\$PRINTER, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0606
	R10,R11	
MOVAB	LIB\$CVT DTB, R11	
MOVL	#SET\$WRITEERR, R10	
MOVAB	CLISGET_VALUE, R9	
MOVL	#CLIS_NEGATED, R8	
MOVL	#CLIS_ABSENT, R7	
MOVL	#SET\$DEVSET1, R6	
MOVAB	CLISPRESENT, R5	
MOVAB	LIB\$SIGNAL, R4	
MOVAB	P.ACK, R3	
MOVAB	-68(SP), SP	
CLRL	FLAGS	0607
MOVL	#34471936, DESC	0639
CLRL	DESC+4	
MOVL	#34471936, WIDTH_DESC	0640
CLRL	WIDTH_DESC+4	
MOVL	#34471936, PAGE_DESC	0641
CLRL	PAGE_DESC+4	
PUSHAB	DESC	0642
PUSHL	R3	
CALLS	#2, CLISGET_VALUE	
CLRL	-(SP)	0649
PUSHAB	CHANNEL	
PUSHAB	DESC	

00000000G	00	04	FB	00079	CALLS	#4, SYSS\$ASSIGN	
	52	50	DO	00080	MOVL	R0, STATUS	
	1E	52	E9	00083	BLBC	STATUS, 1\$	
24	AE	0C	DO	00086	MOVL	#12, INFO_DESC	0658
28	AE	18	9E	0008A	MOVAB	INFO_BLOCK, INFO_DESC+4	0659
		24	9F	0008F	PUSHAB	INFO_DESC	0661
			7E	7C	CLRQ	-(SP)	
			7E	D4	CLRL	-(SP)	
			AE	3C	MOVZWL	CHANNEL, -(SP)	
00000000G	7E	10	05	FB	0009A	CALLS	#5, SYSS\$GETCHN
	00		50	DO	000A1	MOVL	R0, STATUS
	52		52	E8	000A4	BLBS	STATUS, 2\$
	03		02FF	31	000A7	BRW	39\$
43	8F	1C	AE	91	000AA	CMPB	INFO_BLOCK+4, #67
			10	13	000AF	BEQL	3\$
			8F	DD	000B1	PUSHL	#CLIS_IVDEVTYPE
		00000000G	AE	9F	000B7	PUSHAB	DESC
		30	01	DD	000BA	PUSHL	#1
			5A	DD	000BC	PUSHL	R10
	64		04	FB	000BE	CALLS	#4, LIB\$SIGNAL
		0C	A3	9F	000C1	PUSHAB	P.ACM
	65		01	FB	000C4	CALLS	#1, CLIS\$PRESENT
OC	AE		50	FO	000C7	INSV	R0, #0, #1, FLAGS
	00	18	A3	9F	000CD	PUSHAB	P.ACO
			01	FB	000D0	CALLS	#1, CLIS\$PRESENT
	65		50	DO	000D3	MOVL	R0, STATUS
	52		52	D1	000D6	CMPL	STATUS, R7
	57		17	13	000D9	BEQL	5\$
			52	D1	000DB	CMPL	STATUS, R8
	58		0A	13	000DE	BEQL	4\$
20	AE		02	88	000E0	BISB2	#2, LP_CHAR
OC	AE		02	88	000E4	BISB2	#2, FLAGS
			08	11	000E8	BRB	5\$
OC	AE		04	88	000EA	BISB2	#4, FLAGS
20	AE		02	8A	000EE	BICB2	#2, LP_CHAR
		24	A3	9F	000F2	PUSHAB	P.ACO
	65		01	FB	000F5	CALLS	#1, CLIS\$PRESENT
	52		50	DO	000F8	MOVL	R0, STATUS
	57		52	D1	000FB	CMPL	STATUS, R7
			17	13	000FE	BEQL	7\$
	58		52	D1	00100	CMPL	STATUS, R8
			0A	13	00103	BEQL	6\$
20	AE		01	88	00105	BISB2	#1, LP_CHAR
OC	AE		08	88	00109	BISB2	#8, FLAGS
			08	11	0010D	BRB	7\$
OC	AE		10	88	0010F	BISB2	#16, FLAGS
20	AE		01	8A	00113	BICB2	#1, LP_CHAR
		34	A3	9F	00117	PUSHAB	P.ACS
	65		01	FB	0011A	CALLS	#1, CLIS\$PRESENT
	52		50	DO	0011D	MOVL	R0, STATUS
	57		52	D1	00120	CMPL	STATUS, R7
			18	13	00123	BEQL	9\$
	58		52	D1	00125	CMPL	STATUS, R8
			0A	13	00128	BEQL	8\$
21	AE		01	88	0012A	BISB2	#1, LP_CHAR+1
OC	AE		20	88	0012E	BISB2	#32, FLAGS
			09	11	00132	BRB	9\$



OC	AE	40	8F	88	00134	88:	BISB2	#64, FLAGS	0714
21	AE		01	8A	00139		BICB2	#1, LP_CHAR+1	0715
		44	A3	9F	0013D	98:	PUSHAB	P.ACU	0719
	65		01	FB	00140		CALLS	#1, CLISPPRESENT	
	52		50	D0	00143		MOVL	R0, STATUS	
	57		52	D1	00146		CMPL	STATUS, R7	
			18	13	00149		BEQL	118	
	58		52	D1	0014B		CMPL	STATUS, R8	0722
			08	13	0014E		BEQL	108	
20	AE		04	88	00150		BISB2	#4, LP_CHAR	0723
OC	AE	80	8F	88	00154		BISB2	#128, FLAGS	
			08	11	00159		BRB	118	
OD	AE		01	88	0015B	108:	BISB2	#1, FLAGS+1	0726
20	AE		04	8A	0015F		BICB2	#4, LP_CHAR	0727
		50	A3	9F	00163	118:	PUSHAB	P.ACU	0731
	65		01	FB	00166		CALLS	#1, CLISPPRESENT	
	52		50	D0	00169		MOVL	R0, STATUS	
	57		52	D1	0016C		CMPL	STATUS, R7	
			17	13	0016F		BEQL	138	
	58		52	D1	00171		CMPL	STATUS, R8	0734
			0A	13	00174		BEQL	128	
20	AE		10	88	00176		BISB2	#16, LP_CHAR	0735
OD	AE		02	88	0017A		BISB2	#2, FLAGS+1	
			08	11	0017E		BRB	138	
OD	AE		04	88	00180	128:	BISB2	#4, FLAGS+1	0738
20	AE		10	8A	00184		BICB2	#16, LP_CHAR	0739
		64	A3	9F	00188	138:	PUSHAB	P.ACY	0743
	65		01	FB	0018B		CALLS	#1, CLISPPRESENT	
	52		50	D0	0018E		MOVL	R0, STATUS	
	57		52	D1	00191		CMPL	STATUS, R7	
			19	13	00194		BEQL	158	
	58		52	D1	00196		CMPL	STATUS, R8	0746
			0B	12	00199		BNEQ	148	
20	AE	80	8F	88	0019B		BISB2	#128, LP_CHAR	0747
OD	AE		08	88	001A0		BISB2	#8, FLAGS+1	
			09	11	001A4		BRB	158	
OD	AE		10	88	001A6	148:	BISB2	#16, FLAGS+1	0750
20	AE	80	8F	8A	001AA		BICB2	#128, LP_CHAR	0751
		78	A3	9F	001AF	158:	PUSHAB	P.ADA	0755
	65		01	FB	001B2		CALLS	#1, CLISPPRESENT	
	52		50	D0	001B5		MOVL	R0, STATUS	
	57		52	D1	001B8		CMPL	STATUS, R7	
			19	13	001BB		BEQL	178	
	58		52	D1	001BD		CMPL	STATUS, R8	0758
			0B	13	001C0		BEQL	168	
20	AE	80	8F	88	001C2		BISB2	#128, LP_CHAR	0759
OD	AE		08	88	001C7		BISB2	#8, FLAGS+1	
			09	11	001CB		BRB	178	
OD	AE		10	88	001CD	168:	BISB2	#16, FLAGS+1	0762
20	AE	80	8F	8A	001D1		BICB2	#128, LP_CHAR	0763
		0088	C3	9F	001D6	178:	PUSHAB	P.ADC	0768
	65		01	FB	001DA		CALLS	#1, CLISPPRESENT	
	52		50	D0	001DD		MOVL	R0, STATUS	
	57		52	D1	001E0		CMPL	STATUS, R7	
			17	13	001E3		BEQL	198	
	58		52	D1	001E5		CMPL	STATUS, R8	0771
			0A	13	001E8		BEQL	188	

21	AE		02	88	001EA	BISB2	#2, LP_CHAR+1	0772
0E	AE		08	88	001EE	BISB2	#8, FLAGS+2	
			08	11	001F2	BRB	19\$	
0E	AE		10	88	001F4	BISB2	#16, FLAGS+2	0775
21	AE		02	8A	001F8	BICB2	#2, LP_CHAR+1	0776
		0098	C3	9F	001FC	PUSHAB	P.ADE	0781
	65		01	FB	00200	CALLS	#1, CLISPPRESENT	
	52		50	D0	00203	MOVL	R0, STATUS	
	57		52	D1	00206	CMPL	STATUS, R7	
			1A	13	00209	BEQL	21\$	
	58		52	D1	0020B	CMPL	STATUS, R8	0784
			0B	13	0020E	BEQL	20\$	
20	AE	40	8F	88	00210	BISB2	#64, LP_CHAR	0785
0E	AE		20	88	00215	BISB2	#32, FLAGS+2	
			0A	11	00219	BRB	21\$	
0E	AE	40	8F	88	0021B	BISB2	#64, FLAGS+2	0788
20	AE	40	8F	8A	00220	BICB2	#64, LP_CHAR	0789
		00A4	C3	9F	00225	PUSHAB	P.ADG	0794
	65		01	FB	00229	CALLS	#1, CLISPPRESENT	
	52		50	D0	0022C	MOVL	R0, STATUS	
	57		52	D1	0022F	CMPL	STATUS, R7	
			1B	13	00232	BEQL	23\$	
	58		52	D1	00234	CMPL	STATUS, R8	0797
			0B	13	00237	BEQL	22\$	
20	AE		20	88	00239	BISB2	#32, LP_CHAR	0798
0E	AE	80	8F	88	0023D	BISB2	#128, FLAGS+2	
			08	11	00242	BRB	23\$	
0F	AE		01	88	00244	BISB2	#1, FLAGS+3	0801
20	AE		20	8A	00248	BICB2	#32, LP_CHAR	0802
		00B4	C3	9F	0024C	PUSHAB	P.ADI	0807
	65		01	FB	00250	CALLS	#1, CLISPPRESENT	
	52		50	D0	00253	MOVL	R0, STATUS	
	57		52	D1	00256	CMPL	STATUS, R7	
			17	13	00259	BEQL	25\$	
	58		52	D1	0025B	CMPL	STATUS, R8	0810
			0A	13	0025E	BEQL	24\$	
21	AE		04	88	00260	BISB2	#4, LP_CHAR+1	0811
0F	AE		02	88	00264	BISB2	#2, FLAGS+3	
			08	11	00268	BRB	25\$	
0F	AE		04	88	0026A	BISB2	#4, FLAGS+3	0814
21	AE		04	8A	0026E	BICB2	#4, LP_CHAR+1	0815
		00C8	C3	9F	00272	PUSHAB	P.ADK	0820
	65		01	FB	00276	CALLS	#1, CLISPPRESENT	
	52		50	D0	00279	MOVL	R0, STATUS	
	57		52	D1	0027C	CMPL	STATUS, R7	
			17	13	0027F	BEQL	27\$	
	58		52	D1	00281	CMPL	STATUS, R8	0823
			0A	13	00284	BEQL	26\$	
21	AE		08	88	00286	BISB2	#8, LP_CHAR+1	0824
0F	AE		08	88	0028A	BISB2	#8, FLAGS+3	
			08	11	0028E	BRB	27\$	
0F	AE		10	88	00290	BISB2	#16, FLAGS+3	0827
21	AE		08	8A	00294	BICB2	#8, LP_CHAR+1	0828
		00D4	C3	9F	00298	PUSHAB	P.ADM	0837
	65		01	FB	0029C	CALLS	#1, CLISPPRESENT	
	05		50	F0	0029F	INSV	R0, #5, #1, FLAGS+1	
	06		50	E9	002A5	BLBC	R0, 28\$	

	1D	AE		01	90	002A8	MOV	#1	INFO_BLOCK+5	0838		
				3F	11	002AC	BRB	31\$				
			00E4	C3	9F	002AE	28\$:	PUSHAB	P.ADO	0839		
OD	AE	01	65	01	FB	002B2	CALLS	#1, CLISPRESENT				
			06	50	FO	002B5	INSV	R0, #6, #1, FLAGS+1				
			06	50	E9	002BB	BLBC	R0, 29\$				
	1D	AE		03	90	002BE	MOV	#3, INFO_BLOCK+5	0840			
				29	11	002C2	BRB	31\$				
			00F0	C3	9F	002C4	29\$:	PUSHAB	P.ADO	0841		
OD	AE	01	65	01	FB	002C8	CALLS	#1, CLISPRESENT				
			07	50	FO	002CB	INSV	R0, #7, #1, FLAGS+1				
			06	50	E9	002D1	BLBC	R0, 30\$				
	1D	AE		02	90	002D4	MOV	#2, INFO_BLOCK+5	0842			
				13	11	002D8	BRB	31\$				
			0100	C3	9F	002DA	30\$:	PUSHAB	P.ADS	0843		
OE	AE	01	65	01	FB	002DE	CALLS	#1, CLISPRESENT				
			00	50	FO	002E1	INSV	R0, #0, #1, FLAGS+2				
			03	50	E9	002E7	BLBC	R0, 31\$				
				1D	AE	94	002EA	CLRB	INFO_BLOCK+5	0844		
				34	AE	9F	002ED	31\$:	PUSHAB	PAGE_DESC	0849	
				010C	C3	9F	002F0	PUSHAB	P.ADO			
OE	AE	01	69	02	FB	002F4	CALLS	#2, CLISGET_VALUE				
			01	50	FO	002F7	INSV	R0, #1, #1, -FLAGS+2				
			2D	50	E9	002FD	BLBC	R0, 33\$				
				04	AE	9F	00300	PUSHAB	LENGTH	0853		
				3C	AE	DD	00303	PUSHL	PAGE_DESC+4	0854		
				3C	AE	3C	00306	MOVZWL	PAGE_DESC, -(SP)	0853		
			7E	03	FB	0030A	CALLS	#3, LIBSCVT_DTB				
			6B	50	E8	0030D	BLBS	R0, 32\$				
			09	C3	9F	00310	PUSHAB	P.ADW	0858			
				0118	AE	9F	00314	PUSHAB	PAGE_DESC			
				38	3E	11	00317	BRB	34\$			
			000000FF	8F	04	AE	D1	00319	32\$:	CMPL	LENGTH, #255	0862
					4D	14	00321	BGTR	36\$			
					04	AE	D5	00323	TSTL	LENGTH	0863	
					48	19	00326	BLSS	36\$			
			23	AE	04	AE	90	00328	MOV	LENGTH, INFO_BLOCK+11	0869	
					3C	AE	9F	0032D	33\$:	PUSHAB	WIDTH_DESC	0875
				0128	C3	9F	00330	PUSHAB	P.ADY			
					02	FB	00334	CALLS	#2, CLISGET_VALUE			
OE	AE	01	69	50	FO	00337	INSV	R0, #2, #1, -FLAGS+2				
			02	50	E9	0033D	BLBC	R0, 38\$				
			3F	08	AE	9F	00340	PUSHAB	WIDTH	0879		
				44	AE	DD	00343	PUSHL	WIDTH_DESC+4	0880		
				44	AE	3C	00346	MOVZWL	WIDTH_DESC, -(SP)	0879		
			7E	03	FB	0034A	CALLS	#3, LIBSCVT_DTB				
			6B	50	E8	0034D	BLBS	R0, 35\$				
			11	C3	9F	00350	PUSHAB	P.AEA		0884		
				0134	AE	9F	00354	PUSHAB	WIDTH_DESC			
				40	02	DD	00357	34\$:	PUSHL	#2		
					8F	DD	00359	PUSHL	#7803690			
					51	11	0035F	BRB	40\$			
			0000FFFF	8F	08	AE	D1	00361	35\$:	CMPL	WIDTH, #65535	0888
					05	14	00369	BGTR	36\$			
					08	AE	D5	0036B	TSTL	WIDTH	0889	
					0A	18	0036E	BGEQ	37\$			
					007711EA	8F	DD	00370	36\$:	PUSHL	#7803370	0892

		64	01	FB	00376	CALLS	#1, LIBSSIGNAL		
			04	00379	RET				0891
1E	AE	08	AE	80	0037A	37%: MOVW	WIDTH, INFO_BLOCK+6		0895
			7E	7C	0037F	38%: CLRQ	-(SP)		0905
			7E	7C	00381	CLRQ	-(SP)		
			08	DD	00383	PUSHL	#8		
		30	AE	9F	00385	PUSHAB	INFO_BLOCK+4		
			7E	7C	00388	CLRQ	-(SP)		
		30	AE	9F	0038A	PUSHAB	IOSB		
			23	DD	0038D	PUSHL	#35		
	7E	28	AE	3C	0038F	MOVZWL	CHANNEL, -(SP)		
			7E	D4	00393	CLRL	-(SP)		
00000000G	00		0C	FB	00395	CALLS	#12, SYSSQIOW		
	52		50	DD	0039C	MOVL	R0, STATUS		
	07		52	E9	0039F	BLBC	STATUS, 39%		0907
	52	10	AE	3C	003A2	MOVZWL	IOSB, STATUS		0908
	0D		52	E8	003A6	BLBS	STATUS, 41%		0909
			52	DD	003A9	39%: PUSHL	STATUS		0910
		30	AE	9F	003AB	PUSHAB	DESC		
			01	DD	003AE	PUSHL	#1		
			5A	DD	003B0	PUSHL	R10		
	64		04	FB	003B2	40%: CALLS	#4, LIBSSIGNAL		
			04	003B5	RET				
	01	0C	AE	E8	003B6	41%: BLBS	FLAGS, 42%		0915
			04	003BA	RET				
06	OC	AE	01	E1	003BB	42%: BBC	#1, FLAGS, 43%		0918
			C3	9F	003C0	PUSHAB	P.AEC		0919
		0140	09	11	003C4	BRB	44%		
0E	OC	AE	02	E1	003C6	43%: BBC	#2, FLAGS, 45%		0920
			C3	9F	003CB	PUSHAB	P.AEE		0921
		014C	AE	9F	003CF	44%: PUSHAB	DESC		
		30	02	DD	003D2	PUSHL	#2		
			56	DD	003D4	PUSHL	R6		
	64		04	FB	003D6	CALLS	#4, LIBSSIGNAL		
06	OC	AE	03	E1	003D9	45%: BBC	#3, FLAGS, 46%		0923
			C3	9F	003DE	PUSHAB	P.AEG		0924
		0158	09	11	003E2	BRB	47%		
0E	OC	AE	04	E1	003E4	46%: BBC	#4, FLAGS, 48%		0925
			C3	9F	003E9	PUSHAB	P.AEI		0926
		0164	AE	9F	003ED	47%: PUSHAB	DESC		
		30	02	DD	003F0	PUSHL	#2		
			56	DD	003F2	PUSHL	R6		
	64		04	FB	003F4	CALLS	#4, LIBSSIGNAL		
06	OC	AE	05	E1	003F7	48%: BBC	#5, FLAGS, 49%		0928
			C3	9F	003FC	PUSHAB	P.AEK		0929
		0174	09	11	00400	BRB	50%		
			06	E1	00402	49%: BBC	#6, FLAGS, 51%		0930
0E	OC	AE	C3	9F	00407	PUSHAB	P.AEM		0931
		0188	AE	9F	0040B	50%: PUSHAB	DESC		
		30	02	DD	0040E	PUSHL	#2		
			56	DD	00410	PUSHL	R6		
	64		04	FB	00412	CALLS	#4, LIBSSIGNAL		
		0C	AE	95	00415	51%: TSTB	FLAGS		0933
			06	18	00418	BGEQ	52%		
		0198	C3	9F	0041A	PUSHAB	P.AEO		0934
			08	11	0041E	BRB	53%		
	0E	0D	AE	E9	00420	52%: BLBC	FLAGS+1, 54%		0935



			01AC	C3	9F	00424		PUSHAB	P.AEQ		0936
			30	AE	9F	00428	53\$:	PUSHAB	DESC		
				02	DD	0042B		PUSHL	#2		
				56	DD	0042D		PUSHL	R6		
				04	FB	0042F		CALLS	#4, LIB\$SIGNAL		
06	OD	64		01	E1	00432	54\$:	BBC	#1, FLAGS+1, 55\$		0938
		AE	01B8	C3	9F	00437		PUSHAB	P.AES		0939
				09	11	0043B		BRB	56\$		
0E	OD	AE		02	E1	0043D	55\$:	BBC	#2, FLAGS+1, 57\$		0940
			01C8	C3	9F	00442		PUSHAB	P.AEU		0941
			30	AE	9F	00446	56\$:	PUSHAB	DESC		
				02	DD	00449		PUSHL	#2		
				56	DD	0044B		PUSHL	R6		
				04	FB	0044D		CALLS	#4, LIB\$SIGNAL		
06	OD	64		03	E1	00450	57\$:	BBC	#3, FLAGS+1, 58\$		0943
		AE	01DC	C3	9F	00455		PUSHAB	P.AEW		0944
				09	11	00459		BRB	59\$		
0E	OD	AE		04	E1	0045B	58\$:	BBC	#4, FLAGS+1, 60\$		0945
			01F0	C3	9F	00460		PUSHAB	P.AEY		0946
			30	AE	9F	00464	59\$:	PUSHAB	DESC		
				02	DD	00467		PUSHL	#2		
				56	DD	00469		PUSHL	R6		
				04	FB	0046B		CALLS	#4, LIB\$SIGNAL		
06	OE	64		03	E1	0046E	60\$:	BBC	#3, FLAGS+2, 61\$		0948
		AE	0200	C3	9F	00473		PUSHAB	P.AFA		0949
				09	11	00477		BRB	62\$		
0E	OE	AE		04	E1	00479	61\$:	BBC	#4, FLAGS+2, 63\$		0950
			0214	C3	9F	0047E		PUSHAB	P.AFC		0951
			30	AE	9F	00482	62\$:	PUSHAB	DESC		
				02	DD	00485		PUSHL	#2		
				56	DD	00487		PUSHL	R6		
				04	FB	00489		CALLS	#4, LIB\$SIGNAL		
06	OE	64		05	E1	0048C	63\$:	BBC	#5, FLAGS+2, 64\$		0953
		AE	0224	C3	9F	00491		PUSHAB	P.AFE		0954
				09	11	00495		BRB	65\$		
0E	OE	AE		06	E1	00497	64\$:	BBC	#6, FLAGS+2, 66\$		0955
			0238	C3	9F	0049C		PUSHAB	P.AFG		0956
			30	AE	9F	004A0	65\$:	PUSHAB	DESC		
				02	DD	004A3		PUSHL	#2		
				56	DD	004A5		PUSHL	R6		
				04	FB	004A7		CALLS	#4, LIB\$SIGNAL		
		64		AE	95	004AA	66\$:	TSTB	FLAGS+2		0958
			0E	06	18	004AD		BGEQ	67\$		
			0244	C3	9F	004AF		PUSHAB	P.AFI		0959
				0B	11	004B3		BRB	68\$		
				AE	E9	004B5	67\$:	BLBC	FLAGS+3, 69\$		0960
		OE	0F	C3	9F	004B9		PUSHAB	P.AFK		0961
			0254	AE	9F	004BD	68\$:	PUSHAB	DESC		
			30	02	DD	004C0		PUSHL	#2		
				56	DD	004C2		PUSHL	R6		
				04	FB	004C4		CALLS	#4, LIB\$SIGNAL		
06	OF	64		01	E1	004C7	69\$:	BBC	#1, FLAGS+3, 70\$		0963
		AE	0264	C3	9F	004CC		PUSHAB	P.AFM		0964
				09	11	004D0		BRB	71\$		
0E	OF	AE		02	E1	004D2	70\$:	BBC	#2, FLAGS+3, 72\$		0965
			0274	C3	9F	004D7		PUSHAB	P.AFO		0966
			30	AE	9F	004DB	71\$:	PUSHAB	DESC		

			02	DD	004DE	PUSHL	#2		
			56	DD	004E0	PUSHL	R6		
			04	FB	004E2	CALLS	#4, LIB\$SIGNAL		
06	OF	64	03	E1	004E3	BBC	#3, FLAGS+3, 73\$		0968
		AE	0288	C3	9F	PUSHAB	P.AFQ		0969
			09	11	004EE	BRB	74\$		
0E	OF	AE	04	E1	004F0	BBC	#4, FLAGS+3, 75\$		0970
			029C	C3	9F	PUSHAB	P.AFS		0971
			30	AE	9F	PUSHAB	DESC		
			02	DD	004FC	PUSHL	#2		
			56	DD	004FE	PUSHL	R6		
			04	FB	00500	CALLS	#4, LIB\$SIGNAL		
06	OD	64	05	E1	00503	BBC	#5, FLAGS+1, 76\$		0973
		AE	02A8	C3	9F	PUSHAB	P.AFU		0974
			1E	11	0050C	BRB	79\$		
06	OD	AE	06	E1	0050E	BBC	#6, FLAGS+1, 77\$		0975
			02B8	C3	9F	PUSHAB	P.AFW		0976
			13	11	00517	BRB	79\$		
			0D	AE	95	TSTB	FLAGS+1		0977
			06	18	0051C	BGEQ	78\$		
			02C4	C3	9F	PUSHAB	P.AFY		0978
			08	11	00522	BRB	79\$		
		0E	0E	AE	E9	BLBC	FLAGS+2, 80\$		0979
			02D4	C3	9F	PUSHAB	P.AGA		0980
			30	AE	9F	PUSHAB	DESC		
			02	DD	0052F	PUSHL	#2		
			56	DD	00531	PUSHL	R6		
			04	FB	00533	CALLS	#4, LIB\$SIGNAL		
15	OE	64	01	E1	00536	BBC	#1, FLAGS+2, 81\$		0982
		AE	34	AE	9F	PUSHAB	PAGE_DESC		0983
			02E0	C3	9F	PUSHAB	P.AGC		
			34	AE	9F	PUSHAB	DESC		
			03	DD	00545	PUSHL	#3		
		00000000G	8F	DD	00547	PUSHL	#SETS DEVSET2		
			05	FB	0054D	CALLS	#5, LIB\$SIGNAL		
11	OE	64	02	E1	00550	BBC	#2, FLAGS+2, 82\$		0985
		AE	3C	AE	9F	PUSHAB	WIDTH_DESC		0986
			02F0	C3	9F	PUSHAB	P.AGE		
			34	AE	9F	PUSHAB	DESC		
			02	DD	0055F	PUSHL	#2		
			56	DD	00561	PUSHL	R6		
		64	05	FB	00563	CALLS	#5, LIB\$SIGNAL		
			04	00566	82\$:	RET			0990

; Routine Size: 1383 bytes, Routine Base: \$CODE\$ + 0551

SETDEVS  
V04-000

F 16  
16-Sep-1984 00:47:57  
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]SETDEVS.B32;1

Page 41  
(7)

: 997 0991 1 END  
: 998 0992 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	1252	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
\$CODES	2744	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	60	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SETDEVS/OBJ=OBJ\$:SETDEVS MSRC\$:SETDEVS/UPDATE=(ENH\$:SETDEVS)

: Size: 2744 code + 1252 data bytes  
: Run Time: 00:46.7  
: Elapsed Time: 02:37.8  
: Lines/CPU Min: 1274  
: Lexemes/CPU-Min: 21763  
: Memory Used: 423 pages  
: Compilation Complete



0052 AH-BT13A-SE  
VAX/VMS V4.0

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